Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product Name R-100
Contains Naphtha (petroleum), hydrotreated heavy, Petroleum distillates, hydrotreated light naphthenic, Chloroalkanes, Petroleum distillates, solvent-refined heavy paraffinic

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended Use Viscometer and/or density measurement equipment calibration and performance verification reference standard
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet
Supplier Cannon Instrument Company
2139 High Tech Rd.
State College, PA 16803-1733
TEL: (814) 353-8000; (800) 676-6232
For further information, please contact
E-mail Address No information available

1.4. Emergency telephone number
Emergency Telephone (800) 255-3924 Domestic CHEM-TEL Inc.
Number +1 (813) 248-0585 Overseas CHEM-TEL Inc. (Please Call Collect)
Europe 112

Section 2. Hazards identification

2.1. - Classification of the substance or mixture

REGULATION (EC) No 1272/2008
Aspiration Toxicity Category 1
Acute Inhalation Toxicity - Dusts and Mists Category 4

Physical Hazards
None

2.2. Label Elements

Signal Word Warning

Hazard Statements
H332 - Harmful if inhaled
H304 - May be fatal if swallowed and enters airways

Precautionary Statements - EU (§28, 1272/2008)
2.3. Other information
May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Prolonged skin contact may defat the skin and produce dermatitis

Section 3. Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>EU - GHS Substance Classification</th>
<th>REACH No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
<td>265-101-6</td>
<td>64742-01-4</td>
<td>&lt; 70</td>
<td>Carc. 1B (H350)</td>
<td>No data available</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>265-091-3</td>
<td>64741-89-5</td>
<td>&lt; 70</td>
<td>Carc. 1B (H350)</td>
<td>No data available</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td>265-090-8</td>
<td>64741-88-4</td>
<td>&lt; 70</td>
<td>Carc. 1B (H350)</td>
<td>No data available</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-dewaxed heavy paraffinic</td>
<td>265-169-7</td>
<td>64742-65-0</td>
<td>&lt; 70</td>
<td>Carc. 1B (H350)</td>
<td>No data available</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>265-157-1</td>
<td>64742-54-7</td>
<td>&lt; 70</td>
<td>Carc. 1B (H350)</td>
<td>No data available</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>265-155-0</td>
<td>64742-52-5</td>
<td>&lt; 70</td>
<td>Carc. 1B (H350)</td>
<td>No data available</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>265-150-3</td>
<td>64742-48-9</td>
<td>&lt; 70</td>
<td>Muta. 1B (H340)</td>
<td>No data available</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light naphthenic</td>
<td>265-156-6</td>
<td>64742-53-6</td>
<td>&lt; 40</td>
<td>Asp. Tox. 1 (H304) Asp. Tox. 1 (H304)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact
Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention if irritation persists.

Skin Contact
Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. Get medical attention if symptoms occur.

Ingestion
Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention.

Inhalation
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.

Protection of First-aiders
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects: Drowsiness, Dizziness, Irritation.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons: No information available.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: None in particular.

5.3. Advice for firefighters

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Clean contaminated surface thoroughly.

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.
7.3. Specific end use(s)  
Exposure Scenario  
No information available.

Other Guidelines  
No information available.

### Section 8. Exposure controls/personal protection

#### 8.1. Control parameters

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Finland</th>
<th>France</th>
<th>Germany</th>
<th>Gibraltar</th>
<th>Greece</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td></td>
<td></td>
<td>TWA: 50 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>64742-48-9</td>
<td></td>
<td></td>
<td>TWA: 300 mg/m³</td>
<td>TWA: 300 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ceiling / Peak: 100 ppm</td>
<td>Ceiling / Peak: 600 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ceiling / Peak: 600 mg/m³</td>
<td></td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>The Netherlands</th>
<th>Norway</th>
<th>Poland</th>
<th>Portugal</th>
<th>Spain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td></td>
<td></td>
<td>TWA: 300 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>64742-48-9</td>
<td></td>
<td></td>
<td>STEL: 900 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Switzerland</th>
<th>Sweden</th>
<th>The United Kingdom</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64742-48-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Biological occupational exposure limits**  
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies  

**Derived No Effect Level**  
No information available.

**Predicted No Effect Concentration (PNEC)**  
No information available.

#### 8.2. Exposure controls

**Engineering Measures**  
Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**  
- **Eye Protection**: Safety glasses with side-shields.
- **Skin and Body Protection**: Long sleeved clothing.
- **Hand Protection**: Protective gloves.
- **Respiratory Protection**: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Environmental Exposure Controls**  
No information available.

### Section 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
<th>Appearance</th>
<th>Pale yellow.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Hydrocarbon-like</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>
9.2. Other information
VOC Content (%)  No information available

Section 10. Stability and reactivity

10.1. Reactivity
Not reactive under normal conditions

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials
Strong oxidizing agents.

10.6. Hazardous decomposition products
None under normal use.

Section 11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

<table>
<thead>
<tr>
<th>Product Information</th>
<th>Inhalation</th>
<th>Eye Contact</th>
<th>Skin Contact</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Information</td>
<td>Harmful by inhalation. Inhalation of mist may cause irritation to the respiratory system.</td>
<td>Contact with eyes may cause irritation.</td>
<td>No known hazard in contact with skin. Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated contact may dry skin and cause irritation.</td>
<td>Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be fatal if swallowed and enters airways.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral (Rat)</th>
<th>LD50 Dermal (Rabbit)</th>
<th>LC50 Inhalation (Rat 4 h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td>&gt; 5000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 5530 mg/m³</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined</td>
<td>&gt; 15 g/kg</td>
<td>&gt; 5 g/kg</td>
<td>= 2.18 mg/L</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Toxicity to Algae</td>
<td>Toxicity to Fish</td>
<td>Toxicity to Microorganisms</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------</td>
<td>------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
<td>-</td>
<td>&gt; 5000 mg/L: LC50 96 h (Oncorhynchus mykiss)</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td></td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td></td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent-dewaxed heavy paraffinic</td>
<td></td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td></td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td></td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td></td>
<td>LC50 96 h: = 2200 mg/L (Pimephales promelas)</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light naphthenic</td>
<td></td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport information

Note:

The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

IMDG/IMO

14.1. UN-Number
Not regulated.

14.2. Proper Shipping Name
Not regulated.

14.3. Hazard Class
Not regulated.

14.4. Packing Group
Not regulated.

14.5. Marine Pollutant
None

None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available.

RID

14.1. UN-Number
Not regulated.

14.2. Proper Shipping Name
Not regulated.

14.3. Hazard Class
Not regulated.

14.4. Packing Group
Not regulated.

14.5. Environmental hazard
None

None

ADR

14.1. UN-Number
Not regulated.

14.2. Proper Shipping Name
Not regulated.

14.3. Hazard Class
Not regulated.

14.4. Packing Group
Not regulated.

14.5. Environmental hazard
None

None

ICAO

14.1. UN-Number
Not regulated.

14.2. Proper shipping name
Not regulated.

14.3. Hazard Class
Not regulated.

14.4. Packing Group
Description
Not applicable.

14.5. Environmental hazard
None

None

IATA

14.1. UN-Number
Not regulated.

14.2. Proper Shipping Name
Not regulated.

14.3. Hazard Class
Not regulated.

14.4. Packing Group
Description
Not applicable.

14.5. Environmental hazard
None

None

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorizations and/or restrictions on use:
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII). This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Restricted substance per REACH Annex XVII</th>
<th>Substance subject to authorization per REACH Annex XIV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oils (petroleum), solvent refined - 64742-01-4</td>
<td>Use restricted. See item 28.</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic - 64741-89-5</td>
<td>Use restricted. See item 28.</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic - 64741-88-4</td>
<td>Use restricted. See item 28.</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0</td>
<td>Use restricted. See item 28.</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic - 64742-54-7</td>
<td>Use restricted. See item 28.</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5</td>
<td>Use restricted. See item 28.</td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy - 64742-48-9</td>
<td>Use restricted. See item 28.</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light naphthenic - 64742-53-6</td>
<td>Use restricted. See item 28.</td>
<td></td>
</tr>
</tbody>
</table>

International Inventories

<table>
<thead>
<tr>
<th>TSCA</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Union</td>
<td>Not determined</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Not determined</td>
</tr>
<tr>
<td>IECSC</td>
<td>Not determined</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
</tbody>
</table>

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
15.2. Chemical Safety Assessment
No information available

Section 16. Other information

Full text of H-Statements referred to under sections 2 and 3
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H332 - Harmful if inhaled
H340 - May cause genetic defects
H350 - May cause cancer

Key literature references and sources for data
www.ChemADVISOR.com/

Issuing Date 15-Mar-2018
Revision Date 15-Mar-2018
Revision Note Initial Release.


General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet