SAFETY DATA SHEET

Issuing Date 24-Apr-2014  Revision Date 29-Aug-2017  Revision Number 1

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

1.1. Product identifier
Product Name VP31, VP45, VP62, VP80, VP98, VP125sp, VP160, VP175sp, VP250, VP330, VP450

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
Acute Inhalation Toxicity - Dusts and Mists Category 4

Physical Hazards
None

2.2. Label Elements

Signal Word Warning

Hazard Statements
H332 - Harmful if inhaled

Precautionary Statements - EU (§28, 1272/2008)
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
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
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;100</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;100</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;100</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;100</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;100</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;100</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;100</td>
<td>Muta. 1B (H340) Carc. 1B (H350) Asp. Tox. 1 (H304)</td>
<td>No data available</td>
</tr>
<tr>
<td>Chloroalkanes</td>
<td>263-004-3</td>
<td>61788-76-9</td>
<td>&lt;100</td>
<td></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.

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


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>TWA: 50 ppm</td>
<td>TWA: 300 mg/m³</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.

<table>
<thead>
<tr>
<th>Derived No Effect Level</th>
<th>No information available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predicted No Effect Concentration (PNEC)</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

### 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>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Liquid</td>
<td>Pale yellow.</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Hydrocarbon-like</td>
<td></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Melting Point/Range</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Boiling Point/Boiling Range</strong></td>
<td>&gt;315 °C</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>&gt; 190 °C</td>
<td>Open cup</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>flammability (solid, gas)</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>flammability Limits in Air</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Relative Density</strong></td>
<td>No data available 0.87 - 0.89</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Insoluble in water.</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td>Soluble in solvents.</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Autoignition Temperature</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>58-1100 cSt @ 25°C</td>
<td>None known</td>
</tr>
<tr>
<td><strong>Explosive Properties</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Oxidizing Properties</strong></td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
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

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

Product Information

Inhalation
Harmful by inhalation. Inhalation of mist may cause irritation to the respiratory system.

Eye Contact
Contact with eyes may cause irritation.

Skin Contact
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.

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 5530 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>&gt; 15 g/kg (Rat)</td>
<td>&gt; 5 g/kg (Rabbit)</td>
<td>= 2.18 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
<td>&gt;5000 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td>= 2.18 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 3160 mg/kg (Rabbit)</td>
<td>&gt; 8500 mg/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic</td>
<td></td>
<td></td>
<td>&gt;4.7 mg/l (rat) 4 hr</td>
</tr>
</tbody>
</table>

Sensitization
No information available.

Mutagenic Effects
No information available.

Carcinogenic Effects
The classification listed for the petroleum distillates in this product pertains to those that contain more than 3% DMSO extract as measured by IP 346. The petroleum distillates in this product do not meet that criteria to be classified as carcinogens.

Reproductive Toxicity
No information available.

Developmental Toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Target Organ Effects
Skin. Central nervous system (CNS). Eyes. Respiratory system.

Aspiration Hazard
No information available.
Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
<td>-</td>
<td>&gt; 5000 mg/L: LC50 96 h (Oncorhynchus mykiss)</td>
<td>-</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent-dewaxed heavy paraffinic</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>LC50 96 h: = 2200 mg/L (Pimephales promelas)</td>
<td>LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)</td>
<td></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

Adsorbs on soil.

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.
   Description Not applicable.
14.5. Marine Pollutant None
14.6. Special Provisions None
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

RID
14.1. UN-Number Not regulated.
14.2. Proper Shipping Name Not regulated.
14.3. Hazard Class Not regulated.
   Description Not applicable.
14.5. Environmental hazard None
14.6. Special Provisions None

ADR
14.1. UN-Number Not regulated.
14.2. Proper Shipping Name Not regulated.
14.3. Hazard Class Not regulated.
   Description Not applicable.
14.5. Environmental hazard None
14.6. Special Provisions None

ICAO
14.1. UN-Number Not regulated.
14.2. Proper shipping name Not regulated.
14.3. Hazard Class Not regulated.
   Description Not applicable.
14.5. Environmental hazard None
14.6. Special Provisions None

IATA
14.1. UN-Number Not regulated.
14.2. Proper Shipping Name Not regulated.
14.3. Hazard Class Not regulated.
   Description Not applicable.
14.5. Environmental hazard None
14.6. Special Provisions None

Section 15. Regulatory information

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

International Inventories

TSCA Not determined
EINECS/ELINCS Not determined
DSL/NDSL Complies
PICCS Not determined
ENCS Not determined
IECSC Not determined
AICS  
Not determined

KECL  
Not determined

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment
No information available

Section 16. Other information

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

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

Issuing Date  
24-Apr-2014

Revision Date  
29-Aug-2017

Revision Note  
(M)SDS sections updated: 3, 8.


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