1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name HT39, HT75, HT150, HT240, HT390, R-300 / R-2300, R-350 / R-2350, R-400 / R-2400, R-450 / R-2450, R-500, R-600, RL 102, RL 103, RL 104, RL 105, RL 106, RL107

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Viscometer and/or density measurement equipment calibration and performance verification reference standard

Uses advised against No information available

Supplier’s details

Supplier Address Cannon Instrument Company
2139 High Tech Rd.
State College, PA 16803-1733
TEL: (814) 353-8000; (800) 676-6232

Emergency telephone number

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

2. HAZARDS IDENTIFICATION

Classification

This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico’s NMX-R-019-SC-2011.

Acute Inhalation Toxicity - Dusts and Mists Category 4

Label Elements

Signal Word Warning
Hazard Statements
Harmful if inhaled

Physical and Health Hazards Not Otherwise Classified
Not applicable.

Precautionary Statements
Prevention
• Avoid breathing dust/fume/gas/mist/vapors/spray.
• Use only outdoors or in a well-ventilated area.

General Advice
• None

Inhalation
• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
• Call a POISON CENTER or doctor/physician if you feel unwell.

Storage
• None

Disposal
• None

Other information
May cause eye, skin, and respiratory tract irritation. Prolonged skin contact may defat the skin and produce dermatitis. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
<td>64742-01-4</td>
<td>&lt;100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>64741-89-5</td>
<td>&lt;100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td>64741-88-4</td>
<td>&lt;100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic</td>
<td>64742-65-0</td>
<td>&lt;100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>&lt;100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>&lt;100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy</td>
<td>64742-48-9</td>
<td>&lt;100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chloroalkanes</td>
<td>61788-76-9</td>
<td>&lt;100</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES
Description of necessary first-aid measures

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

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

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

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

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects  
Drowsiness. Dizziness. Irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician  
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media  
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical  
No information available.

Explosion Data  
Sensitivity to Mechanical Impact  
None.

Sensitivity to Static Discharge  
None.

Protective Equipment and Precautions for Firefighters  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Environmental Precautions  
Prevent further leakage or spillage if safe to do so. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment  
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).

Methods for Cleaning Up  
Clean contaminated surface thoroughly.
7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage
Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products
Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
</table>
| Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4 | TWA: 5 mg/m³, as oil mist, mineral  
STEL: TWA: 10 mg/m³, as oil mist, mineral | TWA: 5 mg/m³, as oil mist, mineral | - |
| Residual oils (petroleum), solvent refined 64742-01-4 | TWA: 5 mg/m³, as oil mist, mineral  
STEL: TWA: 10 mg/m³, as oil mist, mineral | TWA: 5 mg/m³, as oil mist, mineral | - |
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | TWA: 5 mg/m³, as oil mist, mineral  
STEL: TWA: 10 mg/m³, as oil mist, mineral | TWA: 5 mg/m³, as oil mist, mineral | - |
| Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0 | TWA: 5 mg/m³, as oil mist, mineral  
STEL: TWA: 10 mg/m³, as oil mist, mineral | TWA: 5 mg/m³, as oil mist, mineral | - |

Appropriate engineering controls

Engineering Measures
Showers  
Eyewash stations  
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Safety glasses with side-shields.

Skin and Body Protection
Wear protective gloves/clothing.

Respiratory Protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Odor</th>
<th>Appearance</th>
<th>Odor Threshold</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid.</td>
<td>Hydrocarbon-like.</td>
<td>Pale yellow.</td>
<td>No information available.</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
None under normal processing.

**Hazardous Polymerization**
Hazardous polymerization does not occur.

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

**Incompatible materials**
Strong oxidizing agents.

**Hazardous decomposition products**
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**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.

**Numerical measures of toxicity - Product**
The following values are calculated based on chapter 3.1 of the GHS document:

### Inhalation

**dust/mist**

2.18 mg/L; (ATE Mix)

<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; 6000 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 napthenic</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>-</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>&gt; 15000 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rabbit)</td>
<td>&gt; 4.7 mg/l (rat) 4 hr.</td>
</tr>
</tbody>
</table>

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms**

No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Respiratory or Skin Sensitization**

No information available

**Germ Cell Mutagenicity**

No information available

**Carcinogenicity**

Petroleum products are known to cause cancer because of carcinogenic components (e.g. benzene, DMSO). These carcinogenic components are typically found in crude petroleum products and are removed through the refinement process.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy napthenic</td>
<td>A2</td>
<td>Group 2B</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Chloroalkanes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ACGIH:** (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

**IARC:**  (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

**NTP:** (National Toxicity Program)

Known - Known Carcinogen

**OSHA:**  (Occupational Safety & Health Administration)

X - Present
Reproductive Toxicity
No information available

STOT - single exposure
No information available

STOT - repeated exposure
Prolonged skin contact may defat the skin and produce dermatitis. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Chronic Toxicity
No information available

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

Aspiration Hazard
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
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>Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>-</td>
<td>-</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic 64741-89-5</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>-</td>
<td>-</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent refined 64742-01-4</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>Naphtha (petroleum), hydrotreated heavy 64742-48-9</td>
<td>LC50 96 h: = 2200 mg/L (Pimephales promelas)</td>
<td>-</td>
<td>-</td>
<td>LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>-</td>
<td>-</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>-</td>
<td>-</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0</td>
<td>LC50 96 h: &gt; 5000 mg/L (Oncorhynchus mykiss)</td>
<td>-</td>
<td>-</td>
<td>EC50 48 h: &gt; 1000 mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available

Bioaccumulation
No information available

Mobility
No information available

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging
Do not re-use empty containers.

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.

**DOT**
Not regulated

**TDG**
Not regulated

**MEX**
Not regulated

**IATA**
Not regulated.

**IMDG/IMO**
Not regulated.

### 15. REGULATORY INFORMATION

#### International Regulations

- **Ozone depleting substances**: Not applicable
- **Persistent Organic Pollutants**: Not applicable
- **Hazardous Waste**: Not applicable
- **The Rotterdam Convention (Prior Informed Consent)**: Not applicable
- **International Convention for the Prevention of Pollution from Ships (MARPOL)**: Not applicable

#### International Inventories

- **TSCA**: -
- **DSL/NDSL**: Complies
- **ENCS**: Not determined
- **IECSC**: Not determined
- **KECL**: Not determined
- **PICCS**: Not determined
- **AICS**: Not determined

**Legend**

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

#### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

- **Acute Health Hazard**: Yes
- **Chronic Health Hazard**: No
- **Fire Hazard**: No
- **Sudden Release of Pressure Hazard**: No
- **Reactive Hazard**: No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chloroalkanes</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined heavy paraffinic</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Petroleum distillates, solvent-refined light paraffinic</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Residual oils (petroleum), solvent refined</td>
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<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
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<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
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<tr>
<td>Petroleum distillates, solvent dewaxed heavy paraffinic</td>
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</tbody>
</table>

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>1</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>0</td>
<td>X</td>
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</tbody>
</table>

Prepared By  
Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

Issuing Date  
27-Jul-2017

Revision Date  
06-Mar-2018

Revision Note  
Name change.

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