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This document complies with 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.

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

GHS product identifier

Product Name R-100

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
Aspiration Toxicity	Category 1

Label Elements

Signal Word

Danger



Hazard Statements

Harmful if inhaled

May be fatal if swallowed and enters airways

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.

Ingestion

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.

Storage

- Store locked up.

Disposal

- Dispose of contents/container to an approved waste disposal plant.

Other information

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Prolonged skin contact may defat the skin and produce dermatitis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Residual oils (petroleum), solvent refined	64742-01-4	< 70	-	-
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	< 70	-	-
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	< 70	-	-
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	< 70	-	-
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	< 70	-	-
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	< 70	-	-
Naphtha (petroleum), hydrotreated heavy	64742-48-9	< 70	-	-
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	< 40	-	-

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

Wash off with warm water and soap. Remove and wash contaminated clothing before

re-use. Get medical attention if symptoms occur.

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

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

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4	TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral	TWA: 5 mg/m ³ , as oil mist, mineral	-
Residual oils (petroleum), solvent refined 64742-01-4	TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral	TWA: 5 mg/m ³ , as oil mist, mineral	-
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral	TWA: 5 mg/m ³ , as oil mist, mineral	-
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	TWA: 5 mg/m ³ , as oil mist, mineral STEL: TWA: 10 mg/m ³ , as oil mist, mineral	TWA: 5 mg/m ³ , 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

Physical State	Liquid.	Appearance	Pale yellow.
Odor	Hydrocarbon-like.	Odor Threshold	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	> 260 °C	None known
Flash Point	> 145 °C	Open cup
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	0.86	at 15 °C

Water Solubility	Insoluble in water.	None known
Solubility in other solvents	Soluble.	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	15 cSt @ 40°C	None known
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	
Other information		
VOC Content (%)	No data available	

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. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

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)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent-refined heavy paraffinic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5530 mg/m ³ (Rat) 4 h
Petroleum distillates, solvent-refined light paraffinic	> 15 g/kg (Rat)	> 5 g/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Residual oils (petroleum), solvent refined	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	= 2.18 mg/L (Rat) 4 h
Naphtha (petroleum), hydrotreated heavy	> 6000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	> 8500 mg/m ³ (Rat) 4 h
Petroleum distillates, hydrotreated heavy naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Petroleum distillates, hydrotreated	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

heavy paraffinic			
Petroleum distillates, solvent dewaxed heavy paraffinic	> 15000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	>4.7 mg/l (rat) 4 hr.
Petroleum distillates, hydrotreated light naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m ³ (Rat) 4 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Residual oils (petroleum), solvent refined	A2	Group 1	Known	X
Petroleum distillates, solvent-refined light paraffinic	A2	Group 1	Known	X
Petroleum distillates, solvent-refined heavy paraffinic	A2	Group 1	Known	X
Petroleum distillates, solvent dewaxed heavy paraffinic	A2	Group 1	Known	X
Petroleum distillates, hydrotreated heavy paraffinic	A2	Group 1	Known	X
Petroleum distillates, hydrotreated heavy naphthenic	A2	Group 1	Known	X
Petroleum distillates, hydrotreated light naphthenic	A2	Group 1	Known	X

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

No information available

Chronic Toxicity

May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Prolonged skin contact with liquid may defat skin and produce dermatitis.

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.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, solvent-refined light paraffinic 64741-89-5		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Residual oils (petroleum), solvent refined 64742-01-4	-	> 5000 mg/L: LC50 96 h (Oncorhynchus mykiss)	-	EC50 48 h: > 1000 mg/L (Daphnia magna)
Naphtha (petroleum), hydrotreated heavy 64742-48-9		LC50 96 h: = 2200 mg/L (Pimephales promelas)		LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)
Petroleum distillates, hydrotreated light naphthenic 64742-53-6		LC50 96 h: > 5000 mg/L (Oncorhynchus mykiss)		EC50 48 h: > 1000 mg/L (Daphnia magna)

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	Complies
DSL/NDSL	Complies
European Union	Not determined
ENCS	Not determined
IECSC	Not determined
KECL	Complies
PICCS	Complies
AICS	Complies

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	No
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.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
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Petroleum distillates, solvent-refined heavy paraffinic				X	
Petroleum distillates, solvent-refined light paraffinic		X		X	
Residual oils (petroleum), solvent refined				X	
Petroleum distillates, hydrotreated heavy naphthenic				X	
Petroleum distillates, hydrotreated heavy paraffinic				X	
Petroleum distillates, solvent dewaxed heavy paraffinic				X	
Petroleum distillates, hydrotreated light naphthenic		X		X	

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal Protection X

Prepared By Product Stewardship
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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