

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

Europe	112
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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)

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
 P308 + P313 - IF exposed or concerned: Get medical advice/ attention
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
 P331 - Do NOT induce vomiting
 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

Not applicable

3.2. Mixtures

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

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**

Chemical Name	Finland	France	Germany	Gibraltar	Greece
Naphtha (petroleum), hydrotreated heavy 64742-48-9			TWA: 50 ppm TWA: 300 mg/m ³ Ceiling / Peak: 100 ppm Ceiling / Peak: 600 mg/m ³ Repr*		
Chemical Name	The Netherlands	Norway	Poland	Portugal	Spain
Naphtha (petroleum), hydrotreated heavy 64742-48-9			TWA: 300 mg/m ³ STEL: 900 mg/m ³		
Chemical Name	Switzerland		Sweden	The United Kingdom	
Naphtha (petroleum), hydrotreated heavy 64742-48-9	STEL: 100 ppm STEL: 600 mg/m ³ TWA: 50 ppm TWA: 300 mg/m ³				

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

Personal protection equipment should be chosen according to the CEN standards

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**

Physical State	Liquid	Appearance	Pale yellow.
Odor	Hydrocarbon-like		
<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	No data available	None known
Vapor Pressure	No data available.	None known
Vapor Density	No data available.	None known
Relative Density	0.86	None known
Water Solubility	Insoluble in water.	None known
Solubility in other solvents	Soluble in solvents.	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
Explosive Properties	No information available	
Oxidizing Properties	No information available	

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****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

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.

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	> 15 g/kg (Rat)	> 5 g/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h

light paraffinic			
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 heavy paraffinic	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	
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

Respiratory or Skin Sensitization
Mutagenic Effects
Carcinogenic Effects

No information available
 No information available
 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
Developmental Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration Hazard

No information available
 No information available
 No information available
 No information available
 Skin. Central nervous system (CNS). Eyes. Respiratory system.
 No information available.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

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

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.
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	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.
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.
14.4. Packing Group	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.
 14.4. Packing Group 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.
 14.4. Packing Group 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

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).

Chemical Name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Residual oils (petroleum), solvent refined - 64742-01-4	Use restricted. See item 28.	
Petroleum distillates, solvent-refined light paraffinic - 64741-89-5	Use restricted. See item 28.	
Petroleum distillates, solvent-refined heavy paraffinic - 64741-88-4	Use restricted. See item 28.	
Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0	Use restricted. See item 28.	
Petroleum distillates, hydrotreated heavy paraffinic - 64742-54-7	Use restricted. See item 28.	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	Use restricted. See item 28.	
Naphtha (petroleum), hydrotreated heavy - 64742-48-9	Use restricted. See item 28. Use restricted. See item 29.	
Petroleum distillates, hydrotreated light naphthenic - 64742-53-6	Use restricted. See item 28.	

International Inventories

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

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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

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/

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Revision Note Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006

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