



## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

Product name R-100

### Other means of identification

### Recommended use of the chemical and restrictions on use

Material Uses Coolant.  
Uses advised against Verify Applications

### Details of the supplier of the safety data sheet

#### Manufacturer

Hangsterfer's Laboratories, Inc.  
175 Ogden Road  
Mantua, NJ 08051  
Phone +1 856-468-0216  
Fax +1 856-468-0200  
Website: [www.hangsterfers.com](http://www.hangsterfers.com)

### Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

## 2. Hazards Identification

Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1).  
Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.

### Classification of the substance or mixture

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

None

### Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Colorless

Physical state Liquid

Odor Mild

### Other Information

No known effect

## 3. Composition/information on Ingredients

**Substance**

**Chemical Family** Synthetic Fluid.

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First Aid Measures

**Description of first aid measures**

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary. If eye irritation persists: Get medical advice/attention.

**Skin contact** Wash skin with soap and water. Consult a physician if necessary.

**Inhalation** Remove to fresh air. Consult a physician if necessary.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** None known.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

#### 5. Fire-Fighting Measures

**Suitable extinguishing media** Not applicable.

**Specific hazards arising from the chemical** None.

**Hazardous combustion products** Carbon oxides.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters** Move containers from fire area if you can do it without risk.

#### 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid breathing dust/fume/gas/mist/vapors/spray. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.

**Other Information** Report spills as required to the appropriate authorities.

**Environmental precautions**

**Environmental precautions** No unusual hazard.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

**Methods for Clean-up** Take up mechanically, placing in appropriate containers for disposal.

## 7. Handling and Storage

### Precautions for safe handling

**Advice on safe handling** Avoid contact with eyes. Keep container in a well-ventilated place. Avoid breathing dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from extreme heat. Protect from Freeze.

**Incompatible materials** Acid, base, oxidizing agent, strong.

## 8. Exposure Controls/Personal Protection

### Control parameters

**Exposure Limits** See also Engineering Controls.

### Appropriate engineering controls

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

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Safety glasses with side-shields.

**Skin and Body Protection** Use protective gloves and clothing if contact with product is likely.

**Respiratory protection** If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.

**Environmental exposure controls** No unusual hazard.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Colorless
<b>Odor</b>	Mild
<b>Color</b>	Colorless
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	9.2 - 9.4	None known
<b>Melting point / freezing point</b>	-	None known
<b>Boiling point / boiling range</b>	100 °C / 212 °F	
<b>Flash point</b>	No data available	None known
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	Not applicable	
<b>Lower flammability limit:</b>	Not flammable	
<b>Vapor pressure</b>	<0.01 mmHg @ 20 °C	
<b>Vapor density</b>	> 1	

<b>Specific gravity</b>	1.03 - 1.05
<b>Water solubility</b>	Soluble in water
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	
<b>Kinematic viscosity</b>	1 - 3 cSt @ 40°C / 32 - 45 SUS @ 100°F
<b>Dynamic viscosity</b>	No information available
<b>VOC Content (%)</b>	Request additional information

## 10. Stability and Reactivity

<b>Reactivity</b>	No unusual hazard.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal use conditions.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	No additional remarks.
<b>Incompatible materials</b>	Acid, base. oxidizing agent, strong.
<b>Hazardous decomposition products</b>	Carbon oxides.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known information
<b>Inhalation</b>	No unusual hazard.
<b>Eye contact</b>	No unusual hazard.
<b>Skin contact</b>	No unusual hazard.
<b>Ingestion</b>	No unusual hazard.

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

<b>Symptoms</b>	None known.
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### Acute toxicity

#### **Numerical measures of toxicity**

No information available

<b>ATEmix (oral)</b>	37,051.00 mg/kg
<b>ATEmix (dermal)</b>	81,019.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	6.46

<b>Oral LD50</b>	> 5000 mg/kg (rat)
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	OECD 404 - Non-irritating and non-corrosive (rabbit).
<b>Serious eye damage/eye irritation</b>	No unusual hazard.

<b>Irritation</b>	No information available.
<b>Sensitization</b>	No known effect.
<b>Mutagenic Effects</b>	No known effect.
<b>Carcinogenicity</b>	No known effect.
<b>Reproductive effects</b>	No known effect.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic toxicity</b>	No known effect.
<b>Aspiration Hazard</b>	No unusual hazard.

## 12. Ecological Information

<b>Ecotoxicity</b>	No known effect
<b>Persistence/Degradability</b>	No unusual hazard.
<b>Bioaccumulation</b>	There is no data for this product.
<b>Other adverse effects</b>	None known

## 13. Disposal Considerations

### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with federal, state and local regulations.
<b>Contaminated packaging</b>	Do not reuse empty containers.

## 14. Transport Information

<b><u>DOT</u></b>	Not regulated
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## 15. Regulatory Information

### International Inventories

<b>TSCA</b>	Complies.
<b>DSL/NDSL</b>	Complies.
<b>EINECS/ELINCS</b>	Complies.
<b>ENCS</b>	Complies.
<b>IECSC</b>	Complies.
<b>KECL</b>	Complies.
<b>PICCS</b>	Complies.

**AICS** Complies.

**Legend:**

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

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**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

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or 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**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

**CWA (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.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations****US State Regulations**

The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered hazardous. All other components are either listed on the TSCA inventory or are exempt from listing. See Section 16 for explanation of column headings.

**U.S. EPA Label information**

**EPA Pesticide registration number** Not applicable

**16. Other Information**

<b><u>NFPA</u></b>	<b>Health hazards</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical properties - Personal Protection SECTION 8: Exposure</b>
<b><u>HMIS</u></b>	<b>Health hazards</b> 1	<b>Flammability</b> 0	<b>Physical hazards</b> 0	

controls/personal  
protection**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend SECTION 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

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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**