

# **Safety Data Sheet**

Revision Number 3

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	e 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 856-468-0216, Fax 856-468-0200, Website:

 www.hangsterfers.com

 Emergency telephone number

 Emergency telephone number

 Chemtrec 1-800-424-9300 in USCanutec 1-613-996-6666 in Canada For international assistance, dial Chemtrec US number 1-703-527-3887

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**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label Elements

#### **EMERGENCY OVERVIEW**

None

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

Appearance Amber

Physical state Liquid

Odor Mild

## Hazards not otherwise classified (HNOC)

Other Information

No known effect

#### 3. Composition/information on Ingredients

**Chemical Family** 

Synthetic Fluid.

Chemical name	CAS-No	Weight-%
Triethanolamine	102-71-6	6.819

# 4. First aid measures First aid measures Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If Eye contact eve irritation persists, consult a physician if necessary. Skin contact Wash skin with soap and water. Consult a physician if necessary. Remove to fresh air. Consult a physician if necessary. Inhalation Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary. Ingestion 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 productsCarbon oxides. 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 Avoid contact with skin and eyes. Wear boots, gloves and protective suit when handling Personal precautions 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

Handling

Avoid contact with eyes. Keep container in a well-ventilated place. Do not puncture, crush or incinerate containers.

#### Conditions for safe storage, including any incompatibilities

Storage	Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from heat.	
Incompatible materials	Acids and oxidizing agents.	

8. Exposure Controls/Personal Protection

Control parameters

Exposure guidelines	See also Engineering Controls.			
Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup> -			
Appropriate engineering controls				
Engineering controls	Ensure adequate ventilation, especially in confined areas.			
Individual protection measures, suc	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.			
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

Physical state Appearance Color	Liquid Amber Amber	Odor Odor threshold	Mild No information available
Property pH Melting point / freezing point Boiling point Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit Lower flammability limit Vapor pressure Vapor density Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity VOC Content, % Vol	Values 8.9 - 100 °C / 212 °F Not flammable No information available No information available No unusual hazard No unusual hazard <0.01 mmHg @ 20 °C > 1 1.04 Soluble in water No information available No information available No unusual hazard No information available Request additional information	Remarks • Method pH (10% soln/water) May begin to solidify at	0 °C / 32 °F

10. Stability and Reactivity

**Reactivity** 

No unusual hazard

Chemical stability Stable under normal conditions.	
Possibility of hazardous reactions	
None under normal use conditions.	
Hazardous polymerization	Hazardous polymerization does not occur.

Conditions to avoid No additional remarks. Incompatible materials Acids and oxidizing agents. Hazardous decomposition products Carbon oxides.

# **11. Toxicological Information**

Information on likely routes of exposure		
Product Information	Product does not present an acute toxicity hazard based on known information	
Inhalation	No unusual hazard.	
Eye contact	No unusual hazard.	
Skin contact	No unusual hazard.	
Ingestion	No unusual hazard.	

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triethanolamine 102-71-6	= 4190 mg/kg(Rat)	> 20 mL/kg (Rabbit)> 16 mL/kg ( Rat)	

#### Information on toxicological effects

Symptoms

None known.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Serious eye damage/eye i Sensitization Mutagenic Effects Carcinogenicity		ect.	rosive (raddit).	
Chemical name	ACGIH	IARC	NTP Carc	OSHA
Triethanolamine 102-71-6	Not Listed	Group 3		
Reproductive effects	No known effe	No known effect.		
STOT - single exposure	No information available.			
TOT - repeated exposure	No information available.			
Chronic toxicity	No known effe	No known effect.		
Aspiration Hazard	No unusual hazard.			

**Oral LD50** > 5000 mg/kg (rat)

12.	Ecolo	dical	Information	
		giuui	mormation	

# **Ecotoxicity**

No unusual hazard

Chemical name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Triethanolamine	216: 72 h Desmodesmus	10600 - 13000: 96 h		1386: 24 h Daphnia magna
102-71-6	subspicatus mg/L EC50 169:	Pimephales promelas mg/L		mg/L EC50
	96 h Desmodesmus	LC50 flow-through 450 -		-
	subspicatus mg/L EC50	1000: 96 h Lepomis		
	-	macrochirus mg/L LC50		
		static 1000: 96 h Pimephales		
		promelas mg/L LC50 static		

# Persistence/Degradability No unusual hazard

#### **Bioaccumulation/ Accumulation**

No unusual hazard.

Chemica	al name	Log Pow		
Triethan 102-				
Other adverse effects None known				
13. Disposal Considerations				
Waste treatment methods				
Waste Disposal Method	Dispose of in accordanc	Dispose of in accordance with federal, state and local regulations.		
Contaminated packaging	Do not reuse empty cont	Do not reuse empty containers.		

# 14. Transport Information

#### DOT

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated
<u>TDG</u>	
UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated
IMDG/IMO	
UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated

# ADR/RID

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing group	Not regulated
ADR/RID-Labels	Not regulated
Description	Not regulated
<u>TA</u>	

UN-No	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Labels	Not regulated
Packing group	Not regulated
Description	Not regulated

PG\* : Packing group

#### **15. Regulatory information**

# 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 and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight-%	SARA 313 - Threshold Values %
Triethanolamine - 102-71-6	102-71-6	6.819	
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		

## 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

## U.S. Regulations & Inventories

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know 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.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Triethanolamine 102-71-6	Х	Х	Х

U.S. EPA Label information

EPA Pesticide registration number Not applicable

## CANADA

16. Other information				
NFPA HMIS	HEALTH 1 HEALTH 1	Flammability 0 Flammability 0	Instability 0 Physical Hazards 0	Physical hazard - Personal Protection -
Issue Date Revision date Revision Summary	05-01- 03-30-			

#### **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 SDS