



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

Product identifier

Product name **CT-50**

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 856-468-0216, Fax 856-468-0200, Website: www.hangsterfers.com

Emergency telephone number

Emergency telephone number Chemtrec 1-800-424-9300 in US/Canada 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

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (repeated exposure)	Category 2

Label Elements

EMERGENCY OVERVIEW

WARNING

Hazard statements

Harmful if inhaled
May cause damage to organs through prolonged or repeated exposure
Lungs



Appearance Amber

Physical state Liquid

Odor Bland

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Do not eat, drink or smoke when using this product

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

28.24401% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Chemical Family Synthetic Fluid.

Chemical name	CAS-No	Weight-%
Ethylene oxide-Propylene oxide copolymer monobutyl ether	9038-95-3	9.99
2-Amino-2-methyl-1-propanol	124-68-5	1.76

4. First aid measures

First aid measures

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a physician if necessary.

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.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

None.

Hazardous combustion products Carbon 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

Personal precautions	Avoid contact with skin and eyes. 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 information available.
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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.
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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	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Appropriate engineering controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.
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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	Liquid	Odor	Bland
Appearance	Amber	Odor threshold	No information available
Color	Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	8.7	
Melting point / freezing point	-	May begin to solidify at -5 °C / 25 °F
Boiling point	100 °C / 212 °F	
Flash point	Not flammable	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit	No unusual hazard	
Lower flammability limit	No unusual hazard	
Vapor pressure	<0.01 mmHg @ 20 °C	
Vapor density	> 1	
Specific gravity	1.04	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No unusual hazard	
Decomposition temperature	No unusual hazard	
Kinematic viscosity	40 cSt @ 40°C / 187 SUS @ 100°F	
Dynamic viscosity	No information available	
VOC Content, % Vol	Request additional information	

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	Harmful by inhalation.
Eye contact	No unusual hazard.
Skin contact	No unusual hazard.
Ingestion	No unusual hazard.

<u>Chemical name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Ethylene oxide-Propylene oxide copolymer monobutyl ether 9038-95-3	= 12300 µL/kg (Rat)	= 14100 µL/kg (Rabbit) > 20 mL/kg (Rabbit)	= 147 mg/m ³ (Rat) 4 h
2-Amino-2-methyl-1-propanol 124-68-5	= 2900 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	

Information on toxicological effects

Symptoms No information available.

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

Skin corrosion/irritation No unusual hazard.
Serious eye damage/eye irritation No unusual hazard.
Sensitization No known effect.
Mutagenic Effects No known effect.
Carcinogenicity No known effect.
Reproductive effects No known effect.
STOT - single exposure No information available.
STOT - repeated exposure May cause disorder and damage to the. Lungs.
Chronic toxicity No known effect.
Aspiration Hazard No unusual hazard.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 28.24401% of the mixture consists of ingredient(s) of unknown toxicity

12. Ecological InformationEcotoxicity

38.23401% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Freshwater Algae	Fish	Microtox	Water Flea
2-Amino-2-methyl-1-propano I 124-68-5	520: 72 h Desmodesmus subspicatus mg/L EC50	190: 96 h Lepomis macrochirus mg/L LC50 static		193: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

No unusual hazard

Bioaccumulation/ Accumulation

No unusual hazard.

Other adverse effects

No additional remarks

13. Disposal ConsiderationsWaste treatment methods

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

Contaminated packaging Do not reuse empty containers.

14. Transport InformationDOT

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

TDG

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

IATA

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 %
Ethylene oxide-Propylene oxide copolymer monobutyl ether - 9038-95-3	9038-95-3	9.99	
2-Amino-2-methyl-1-propanol - 124-68-5	124-68-5	1.76	

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
2-Amino-2-methyl-1-propanol 124-68-5	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

CANADA**16. Other information**

NFPA HEALTH 1 Flammability 0 Instability 0 Physical hazard -
HMIS HEALTH 1 Flammability 0 Physical Hazards 0 Personal Protection -

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Revision Summary

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