

**HANGSTERFER'S®**

Research, Development & Manufacturing of Metalworking Lubricants

Safety Data Sheet

Creation Date 01-19-2015

Revision Number 2

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

Product identifier**Product name**

Crystal Cut 465

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

Chemtrec 1-800-424-9300 in US/Canute 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**

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

Appearance Clear**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	1.5

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.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. Fire-fighting measures

Suitable extinguishing media

Not applicable.

Unsuitable extinguishing media Not applicable.

Specific hazards arising from the chemical

None known.

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	Remove all sources of ignition. 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 unusual hazard.
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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	Keep container in a well-ventilated place. Do not puncture, crush or incinerate containers. Avoid contact with skin and eyes.
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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 and sources of ignition.
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	Showers, eyewash stations, and ventilation systems. Use in well ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits (ACGIH TLV TWA: 5 mg/m ³ ; ACGIH TLV STEL: 5 mg/m ³)
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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	Mild
Appearance	Clear	Odor threshold	No data available
Color	Colorless		
Property	Values	Remarks • Method	
pH	9.1 - 9.4	May begin to solidify at 0°C / 32°F	
Melting point / freezing point	-		
Boiling point	100 °C / 212 °F		
Flash point	Non-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	<0.1 mmHg @ 20 °C		
Vapor density	> 1		
Specific gravity	1.05 - 1.08		
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	14 - 19 cSt @ 40°C / 73 - 94 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

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Acids and oxidizing agents.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure**Product 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	= 6400 mg/kg (Rat) = > 2000 mg/kg (Rabbit)	> 20 mL/kg (Rabbit) > 16 mL/kg (Rat)	No information available

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	ET50. Non-corrosive.
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	No information available.
Chronic toxicity	No known effect.
Aspiration Hazard	No unusual hazard.

Numerical measures of toxicity - Product Information

Oral LD50 > 5000 mg/kg (rat)

12. Ecological Information

Ecotoxicity

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No unusual hazard

Chemical name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Triethanolamine 102-71-6	216 mg/L (72 h) EC50 Desmodesmus subspicatus	11800 mg/L (96 h)	-	1386.24 h Daphnia magna mg/L EC50

Persistence/Degradability

Readily biodegradable.

Bioaccumulation/ Accumulation

Does not bioaccumulate.

Chemical name	Log Pow
Triethanolamine 102-71-6	-2.53

Other adverse effects

None known

13. Disposal Considerations

Waste treatment methods

Waste Disposal Method

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

Contaminated packaging

Waste code 15 01 10 may apply to empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

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

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 applicable
Hazard Class	Not regulated
Packing group	Not regulated
Labels	Not regulated
Description	Not regulated

ADR/RID

UN-No	Not regulated
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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 applicable
Hazard Class	Not regulated
Labels	Not regulated
Packing group	Not regulated
Description	Not regulated

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

Chemical name	CAS-No	Weight-%	SARA 313 - Threshold Values %
Triethanolamine	102-71-6	15	-

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	X	X	X

U.S. EPA Label information

EPA Pesticide registration number Not applicable

CANADA

16. Other information

<u>NFPA</u>	HEALTH 1	Flammability 0	Instability 0	Physical hazard -
<u>HMIS</u>	HEALTH 1	Flammability 0	Physical Hazards 0	Personal Protection -

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Creation Date	01-19-2015
Revision Date	05-18-2023

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