



**HANGSTERFER'S**<sup>®</sup>

Research, Development & Manufacturing of Metalworking Lubricants

# Safety Data Sheet

Issue Date 08-28-2015

Revision date 12-19-2014

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

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

Specific target organ toxicity (repeated exposure)	Category 2
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### Label Elements

#### EMERGENCY OVERVIEW

#### WARNING

#### Hazard statements

May cause damage to organs through prolonged or repeated exposure  
Lungs



Appearance Clear

Physical state Liquid

Odor Mild

#### Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray  
Do not eat, drink or smoke when using this product

#### Precautionary Statements - Response

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

#### 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**

- No additional remarks

**3. Composition/information on Ingredients**

**Chemical Family** Synthetic Fluid.

Chemical name	CAS-No	Weight-%
Ethylene oxide-Propylene oxide copolymer monobutyl ether	9038-95-3	2.5

**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.

**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** Not applicable.

**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 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** The table below lists known exposure levels for any components of this product which are considered hazardous. Keep in mind, however, that these exposure levels are for air levels of the individual ingredients as measured by specific analytical methods.

**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.

**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>Odor</b>	Mild
<b>Appearance</b>	Clear	<b>Odor threshold</b>	No information available
<b>Color</b>	Colorless		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	9.3		
<b>Melting point / freezing point</b>	-	May begin to solidify at 0 °C / 32 °F	
<b>Boiling point</b>	100 °C / 212 °F		
<b>Flash point</b>	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	<0.1 mmHg @ 20 °C
Vapor density	> 1
Specific gravity	1.06
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	17 cSt @ 40°C / 88 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**

May be harmful if inhaled.

#### **Eye contact**

No unusual hazard.

#### **Skin contact**

No unusual hazard.

#### **Ingestion**

No unusual hazard.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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 <sup>3</sup> ( Rat ) 4 h

### 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**

OECD 404 - Non-irritating and non-corrosive (rabbit).

<b>Serious eye damage/eye irritation</b>	No unusual hazard.
<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>	May cause disorder and damage to the. Lungs.
<b>Chronic toxicity</b>	No known effect.
<b>Aspiration Hazard</b>	No unusual hazard.

#### Numerical measures of toxicity - Product Information

Oral LD50 > 5000 mg/kg (rat)

### 12. Ecological Information

#### Ecotoxicity

No unusual hazard

#### Persistence/Degradability

No unusual hazard

#### Bioaccumulation/ Accumulation

No unusual hazard.

#### 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** Do not reuse empty containers.

### 14. Transport Information

#### DOT

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Description</b>	Not regulated

#### TDG

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Description</b>	Not regulated

#### IMDG/IMO

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Description</b>	Not regulated

**ADR/RID**

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

**IATA**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Description</b>	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 does not contain any 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 %
Ethylene oxide-Propylene oxide copolymer monobutyl ether - 9038-95-3	9038-95-3	2.5	

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	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.

**U.S. EPA Label information**

**EPA Pesticide registration number** Not applicable

**CANADA****16. Other information**

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

Issue Date	08-28-2015
Revision date	12-19-2014
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**