

**1 Identification****GHS Product Identifier**

Lüben (2 in 1) Cryostat & Microtome Lubricant

**Other means of identification**

**Product Code:** MCL1000

**Recommended use of the chemical and restriction on use**

Cryostat Lubricant

**Supplier's details**

Cancer Diagnostics, Inc.  
4300 Emperor Blvd.  
Suite # 400  
Durham, NC 27703

Tel.: 877-846-5393

**Emergency phone number**

CHEMTREC 24 Hour Emergency Response  
USA & Canada 800-424-9300

**2 Hazard(s) identification****Classification of the substance or mixture**

The product is classified as a carcinogen and is restricted to professional use only. Prolonged contact with the skin may cause dermatitis by a de-fatting action.

**GHS label elements**

Danger



Flammable aerosol

Pressurized container: may burst if heated

Harmful if swallowed or if inhaled

Causes skin and eye irritation

Causes serious eye irritation

May cause drowsiness or dizziness

Keep out of reach of children.

Read label before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep cool. Protect from sunlight.

Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 3 Composition/information on ingredients

Description	CAS Number	%	Note
Zinc dithiophosphate	19210-06-1	83	
Mineral Seal Oil	64742-30-9	0.1	Carc. Cat. 2; R45
Petroleum distillates, hydrotreated, middle	64742-46-7	0.1	Carc. Cat. 2; R45
Naphthenic Distillate	64742-53-6	12	Carc. Cat. 2; R45

### 4 First-aid measures

#### Description of necessary first-aid measures

**Eyes:** Wash immediately with clean water or eyewash solution for 10 - 15 minutes. Obtain medical advice if there are persistent symptoms.

**Skin or mouth:** Remove contaminated clothing and wash the affected area liberally with soap and water and rinse mouth repeatedly with drinking water without swallowing.

**Inhalation:** Remove from exposure, maintain airway and give mouth-to-mouth respiration if breathing stops. Obtain medical attention.

### 5 Fire-fighting measures

#### Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol foam

#### Special protective actions for fire-fighters

Evacuate hazard area of unprotected personnel. Fire fighters should wear full protective clothing and approved self-contained full face breathing apparatus operated in the positive pressure demand mode.

### 6 Accidental release measures

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

Evacuate the hazard area of unprotected personnel. Wear appropriate clothing and respirator.

#### Environmental precautions

Ensure there are no sources of ignition.

#### Methods and materials for containment and cleaning up

Spillages should be absorbed in a suitable medium and shovelled into sealed containers for disposal.

### 7 Handling and storage

### Precautions for safe handling

Handle carefully to avoid skin contact and inhalation of aerosols.  
Avoid contact with strong oxidizing agents.  
Always have on hand agreed First Aid items.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry well ventilated location away from incompatible materials.

## 8 Exposure controls/personal protection

### Control parameters

Use in a well ventilated location, preferably over a tray that would contain any spillage and can be thoroughly washed

### Individual protection measures

Wear disposable impervious gloves and apron and discard immediately if contaminated.  
Do not hold rags wetted with product, even with gloved hands. Use tongs or a paintbrush or pad.  
If working at eye-level, wear chemical goggles

## 9 Physical and chemical properties

### Physical and chemical properties

<b>Odor:</b>	Mild hydrocarbon odour
<b>Color:</b>	Dark
<b>Melting Point:</b>	N/A
<b>Boiling Point:</b>	N/A
<b>Specific Gravity:</b>	1.050
<b>Water Solubility:</b>	Negligible

## 10 Stability and reactivity

### Chemical stability

Stable Hazardous polymerisation will not occur

### Conditions to avoid

Avoid contact with strong oxidizing agents

### Hazardous decomposition products

Carbon Monoxide and other unidentified organic compounds may be formed in the presence of combustion.

## 11 Toxicological information

### Toxicological (health) effects

Zinc dithiophosphate: ORL-RAT LDLO 2130 mg kg<sup>-1</sup> 64742-53-6

### Numerical measures of toxicity (such as acute toxicity estimates)

<b>Draize test on skin (rabbit):</b>	Severe irritant
<b>Oral LD50 (rat):</b>	>5000 mg/kg principle effect CNS depression
<b>Dermal LD50 (rabbit):</b>	>2000 mg/kg

### Interactive effects

Data on the other distillates is probably similar

## Mixtures

The oils and distillates are classified as Category 2 carcinogens by the EU and may Cause dermatitis on prolonged contact by deflating the skin.

## 12 Ecological information

### Persistence and degradability

Atmospheric half-life 1-10 days.

### Bioaccumulative potential

Not expected to bio-concentrate or bio-accumulate.

### Mobility in soil

Some degradation in soil and water but evaporates quickly

## 13 Disposal considerations

### Disposal methods

For material recovered from large spills, use non-leaking approved containers sealed tightly and labelled properly. Dispose of in accordance with all local, regional and national regulations. Containers, even those that have been emptied will retain product residue and vapours. Always obey hazard warnings and handle empty containers as if they were full.

## 14 Transport information

### UN Number

UN1950

### UN Proper Shipping Name

2.1

### Environmental hazards

Not hazardous according to regulations.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N/A

## 15 Regulatory information

### Safety, health and environmental regulations specific for the product in question

T

R: 45

S: 53-45

## 16 Other information

### Other information

**Preparation Date:** September 6, 2017

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