

## 1. IDENTIFICATION

### Product Identifier

**Product Name** West Freezer Cleaner

### Recommended use of the chemical and restrictions on use

**Recommended use** Freezer cleaner  
**Restrictions on use** For industrial use only

### Supplier details

West Penetone Inc.  
10900 Secant  
Montréal, QC,  
H1J 1S5  
Tel: 514-355-4660

### Emergency Telephone Number

Canutec: (613)-996-6666

## 2. HAZARDS IDENTIFICATION

### Classification

Flammable liquids	Category 3
Skin corrosion/irritation	Category 2
Eye damage/Irritation	Category 1

### Label Elements

#### **DANGER**

#### **Hazard Statements**

Flammable liquid and vapor  
Causes skin irritation  
Causes serious eye damage



### Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN (or hair): Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before re-use.  
In case of fire: Use CO<sub>2</sub>, foam, dry chemical, water fog to extinguish.

**Precautionary Statements - Storage**

Store locked up. Store in a well ventilated place. Keep cool.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Ethanol	64-17-5	40-50
Methanol	67-56-1	5-10
Diethylene glycol monobutyl ether	112-34-5	5-10
Monoethanolamine	141-43-5	1-3

**4. FIRST AID MEASURES**

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician
<b>Skin contact</b>	Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before re-use.
<b>Inhalation</b>	If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

**Most important symptoms and effects, both acute and delayed**

Contact with eyes may cause serious damage leading to irritation, discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva. Contact with skin may cause irritation with local redness. Inhalation of mist/vapors/spray may cause respiratory tract irritation leading to a temporary burning sensation of the nose and throat, coughing, and difficulty breathing. Ingestion may cause irritation or a burning sensation of the mouth and throat and abdominal pain.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

CO<sub>2</sub>, foam, dry chemical, water fog.

**Unsuitable Extinguishing Media**

Do not use a solid water stream as this may spread the fire.

**Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen, and sulfur and other irritating gases.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

### Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Handling** Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place, away from incompatible materials.

**Incompatible Materials** Strong oxidizing agents

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV
Monoethanolamine 141-43-5	TWA : 3 ppm/7.5 mg/m <sup>3</sup> STEL : 6 ppm/15 mg/m <sup>3</sup>
Methanol 67-56-1	TWA : 200 ppm STEL : 250 ppm
Ethanol 64-17-5	TWA : not established STEL : 1000 ppm
Diethylene glycol monobutyl ether 112-34-5	TWA : 10 ppm

### 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 or face shield.

**Skin and body protection** Wear rubber or neoprene gloves.

**Respiratory Protection** If exposure limits are exceeded or if ventilation is inadequate, NIOSH/MSHA approved respiratory protection for organic vapors should be worn.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE :**

Clear, colorless liquid

**ODOR**

Faint citrus

**ODOR THRESHOLD :**

Not applicable

**pH :**

11.5

**MELTING POINT / FREEZING POINT :**

&lt; -25°C

**BOILING POINT/BOILING RANGE :**

100°C

**FLASH POINT :**

27°C (TCC)

**EVAPORATION RATE, water = 1 :**

&gt; 1

**FLAMMABILITY (SOLID, GAS):**

Not applicable

**VAPOR PRESSURE, mm Hg AT 20°C :**

Not applicable

**VAPOR DENSITY (Air = 1) :**

Not applicable

**RELATIVE DENSITY AT 20°C:**

0.91

**SOLUBILITY IN WATER :**

Complete

**PARTITION COEFFICIENT, N-OCTANOL/WATER :**

Not available

**AUTO-IGNITION TEMPERATURE :**

Not available

**DECOMPOSITION TEMPERATURE:**

Not available

**VISCOSITY:**

&lt; 10 cps

**FLAMMABLE LIMITS :****UPPER:** Not available    **LOWER :** Not available

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive.

**Conditions to Avoid**

Avoid all sources of ignition: open flame. Store away from incompatible materials.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous decomposition products**

None.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol 67-56-1	5628 mg/kg (rat)	20000 mg/kg (rabbit)	64000 ppm 4h (rat)
Ethanol 64-17-5	7060 mg/kg (rat)	20000 mg/kg (rabbit)	31623 ppm 4h (rat)
Diethylene glycol monobutyl ether 112-34-5	3384 mg/kg (rat)	2700 mg/kg (rabbit)	Not available
Monoethanolamine 141-43-5	1720 mg/kg (rat)	1000 mg/kg (rabbit)	Not available

**Information on likely sources of exposure****Inhalation**

May cause respiratory irritation

**Serious eye damage/irritation**

Causes serious eye damage.

**Skin corrosion/irritation**

Causes skin irritation.

**Ingestion**

May be harmful if swallowed

**Delayed and immediate effects and also chronic effects from short and long-term exposure**

<b>Respiratory or skin sensitization</b>	None known
<b>Germ cell mutagenicity</b>	None known
<b>Carcinogenicity</b>	No listed human carcinogens.
<b>Reproductive toxicity</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Aspiration Hazard</b>	None

**Symptoms related to the physical, chemical and toxicological characteristics**

See Section 2 &amp; 4.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Fish	Waterflea	Algae
diethylene glycol monobutyl ether 112-34-5	1300 mg/L: 96 h lepomis macrochirus LC50	Not available	>100 mg/L: 96 h desmodesmus subspicatus EC50
Monoethanolamine 141-43-5	150 mg/L: 96 h rainbow trout LC50	Not available	Not available

**Persistence and degradability**

Expected to be readily biodegradable.

**Bioaccumulative potential**

Accumulation in organisms is not to be expected.

**Mobility in soil**

No information available

**Other adverse effects**

None known

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION****TDG classification**

UN 1993, Flammable Liquid, n.o.s. (ethanol), Class 3, PG III

**15. REGULATORY INFORMATION**

All ingredients are listed on the DSL

**16. OTHER INFORMATION****Preparation Date**

January 2, 2017

**Revision Date**

not applicable

**Revision Note**

not applicable

**Disclaimer**

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**End of SDS**