

# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** LDC-1000 DETERGENT CONC.  
**Product Code:** Y980  
**Other Name(s):** not applicable  
**Distributed By:** not applicable  
**Recommended Use and Restrictions on Use:** not available

**Date of Revision:** March 26, 2020

**Manufactured By:** Ostrem Chemical Co. Ltd.  
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Edmonton, Alberta, Canada T6P 1N2  
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Phone: 780-440-1911  
In Case of Emergency Only, Phone  
CANUTEC: 613-996-6666

## 2. HAZARDS IDENTIFICATION

**Classification of the Mixture:** Acute Toxicity, Oral - Category 4  
Corrosive to Metals - Category 1  
Eye Damage/Irritation - Category 1  
Skin Corrosion/Irritation - Category 1

**Label Elements:**

**Hazard Pictogram(s):**



**Signal Word:** DANGER

**Hazard Statement(s):** Harmful if swallowed.  
May be corrosive to metals.  
Causes serious eye damage.  
Causes severe skin burns and eye damage.

**Precautionary Statement(s):**

**Prevention:** Do not breathe dusts or mists.  
Wash hands thoroughly after handling.  
Wear protective gloves, protective clothing, and eye/face protection.  
Do not eat, drink or smoke when using this product.  
Keep only in original packaging.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a poison centre or physician.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.  
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 centre or physician.  
Absorb spillage to prevent material-damage.

**Storage:** Store locked up.  
Store in a corrosion resistant container with a resistant inner liner.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Physical/health hazards not otherwise classified:**

not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc.</u>	<u>CAS #</u>	<u>Common Names</u>
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potassium hydroxide (45%)	15 - 40%	1310-58-3	caustic potash, lye
trisodium nitrilotriacetate	15 - 40%	5064-31-3	
decyl glucoside (50%)	7 - 13%	68515-73-1	

## 4. FIRST-AID MEASURES

### Necessary Measures:

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison centre or physician.
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a poison centre or physician.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison centre or physician.
  - 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 centre or physician.
- Absorb spillage to prevent material-damage.

### Most important symptoms, both acute and delayed:

- Harmful if swallowed.
- Causes serious eye damage.
- Causes severe skin burns and eye damage.

### Indication of immediate medical attention and special treatment needed, if necessary:

not applicable

## 5. FIRE-FIGHTING MEASURES

### Suitable (and unsuitable) extinguishing media:

Use extinguishing media appropriate for surrounding fire.

### Specific hazards arising from the chemical (e.g.: hazardous combustion products):

May liberate carbon monoxide, carbon dioxide and oxides of sodium.

### Special protective equipment and precautions for firefighters:

As for surrounding fire. Firefighters should wear full protective clothing and self contained breathing equipment.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear appropriate protective equipment. See section 8.

### Environmental precautions:

Prevent from entering sewers, waterways or low areas.

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

Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

- Do not breathe dusts or mists.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Keep only in original packaging.
- Do not ingest. Avoid contact with eyes, skin and clothing.

### Conditions for safe storage, including any incompatibilities:

- Store locked up.
- Store in a corrosion resistant container with a resistant inner liner.
- Keep out of reach of children. Store in a cool, dry area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters - Exposure limits:

Ingredient:

Limit:

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potassium hydroxide (45%)  
trisodium nitrilotriacetate  
decyl glucoside (50%)

ACGIH Ceiling: 2 mg/m<sup>3</sup>  
not available  
not available

## Appropriate engineering controls:

Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

## Respiratory protection:

If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

## Other protection:

Wear protective gloves, protective clothing, and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc.):	green liquid
Odour:	lemon fragrance
Odour threshold:	not available
pH:	13.0 - 13.5
Melting/Freezing point:	not available
Initial boiling point and range:	not available
Flash point:	not applicable
Evaporation rate:	not available
Flammability (solid, gas):	not available
Upper/lower flammability or explosive limits:	not available
Vapour pressure:	not available
Vapour density:	not available
Relative density (specific gravity):	1.231
Solubility(ies):	100%
Partition co-efficient: n-octanol/water:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
Viscosity:	not available

## 10. STABILITY AND REACTIVITY

### Reactivity:

This material is considered to be non-reactive under normal use conditions.

### Chemical stability:

Stable.

### Possibility of hazardous reactions:

Reacts with acids and metals

### Conditions to avoid (e.g.: static discharge, shock or vibration):

not applicable

### Incompatible materials:

Oxidizers / Acid

### Hazardous decomposition products:

not available

## 11. TOXICOLOGICAL INFORMATION

### POTENTIAL ACUTE HEALTH EFFECTS

Inhalation:	May cause respiratory tract irritation.
Ingestion:	Harmful if swallowed.
Eye contact:	Causes serious eye damage.
Skin contact:	Causes severe skin burns and eye damage.
Skin absorption:	not available

### POTENTIAL CHRONIC HEALTH EFFECTS

Inhalation:	not available
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**Ingestion:** not available  
**Eye contact:** not available  
**Skin contact:** not available  
**Skin absorption:** not available

**Mutagenicity:** not available  
**Carcinogenicity:** This information, if applicable, can be found in Section 2.  
**Reproductive toxicity:** This information, if applicable, can be found in Section 2.  
**Sensitization of product:** This information, if applicable, can be found in Section 2.  
**Specific Target Organ Toxicity - single exposure:** This information, if applicable, can be found in Section 2.  
**Specific Target Organ Toxicity - repeated exposure:** This information, if applicable, can be found in Section 2.

## Toxicological Data:

### Ingredient:

potassium hydroxide (45%)  
trisodium nitrilotriacetate  
decyl glucoside (50%)

### Data:

Oral LD50: 273 mg/kg (rat)  
Oral LD50: 1450 mg/kg (rat)  
not available

## Other Toxicological Information on Ingredients:

### trisodium nitrilotriacetate

Suspected of causing cancer.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity (aquatic and terrestrial, where available):** not available  
**Persistence and degradability:** not available  
**Bioaccumulative potential:** not available  
**Mobility in soil:** not available  
**Other adverse effects:** not available  
**Ecological Information on Ingredients:** not available

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** Disposal of all waste must be done according to local, provincial and federal regulations.

## 14. TRANSPORT INFORMATION

**TDG classification:** UN 1814; POTASSIUM HYDROXIDE SOLUTION; CLASS 8; PG II

## 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## 16. PREPARATION INFORMATION

**Prepared by:** Technical Services Department, Ostrem Chemical Co. Ltd., Ph.: 780-440-1911  
**Date of Preparation:** March 17, 2017  
**Date of Revision:** March 26, 2020

This Safety Data Sheet may not be changed or altered in any way without the express knowledge and permission of Ostrem Chemical Co. Ltd.

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