

Safety Data Sheet

1. IDENTIFICATION

Product Identifier: DESCALER **Date of Revision:** N
Product Code: J434
Other Name(s): not applicable
Distributed By: HADDON HOLDINGS LIMITED
Recommended Use and Restrictions on Use: descaler
Manufactured By: Ostrem Chemical Co. Ltd. **Phone/Emergency F**
2310 - 80th Avenue NW **780-440-1911**
Edmonton, Alberta, Canada T6P 1N2 **Mon. - Fri. 8:00am -**
www.ostrem.com

2. HAZARDS IDENTIFICATION

Classification of the Mixture: Corrosive to Metals - Category 1
Serious Eye Damage/Irritation - Category 1
Skin Corrosion/Irritation - Category 1
Specific Target Organ Toxicity (Single Exposure) - Category 3

Label Elements:

Hazard Pictogram(s):



Signal Word: DANGER

Hazard Statement(s): May be corrosive to metals.
Causes serious eye damage.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary Statement(s):

Prevention: Do not breathe dusts or mists.
Wash hands thoroughly after handling.
Wear protective gloves, protective clothing, and eye/face protection.
Avoid breathing dust, vapours or spray.
Use only outdoors or in a well-ventilated area.
Keep only in original packaging.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a p
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse sk
contaminated clothing before reuse. Immediately call a poison centre or phys
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
centre or physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
to do. Continue rinsing. Immediately call a poison centre or physician.
Absorb spillage to prevent material-damage.

Storage: Store locked up.
Store in a well-ventilated place.
Keep container tightly closed.
Store in a corrosion resistant container with a resistant inner liner.

Disposal: Dispose of contents/container in accordance with local/regional/national/inten

Physical/health hazards not otherwise classified:

not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc. w/w</u>	<u>CAS #</u>	<u>Common I</u>
lactic acid (88%)	5 - 10%	79-33-4	
hydrochloric acid (31%)	15 - 40%	7647-01-0	muriatric ac
phosphoric acid (75%)	1 - 5%	7664-38-2	

4. FIRST-AID MEASURES

Necessary Measures:

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

Most important symptoms, both acute and delayed:

Causes serious eye damage.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

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 breath

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 sc
Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean 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.
Avoid breathing dust, vapours or spray.
Use only outdoors or in a well-ventilated area.
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 well-ventilated place.
Keep container tightly closed.
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:

<u>Ingredient:</u>	<u>Limit:</u>
lactic acid (88%)	not available
hydrochloric acid (31%)	ACGIH TLV-C: 2 ppm
phosphoric acid (75%)	ACGIH TLV STEL: 3 mg/m ³ TWA: 1 mg/m ³

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.):	clear, pale liquid
Odour:	pungent odour
Odour threshold:	not available
pH:	0.1; 1% solution: 1.5
Melting/Freezing point:	pas disponible
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):	1.109
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 metals

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

not applicable

Incompatible materials:

Oxidizers / Base

Hazardous decomposition products:

not available

11. TOXICOLOGICAL INFORMATION**POTENTIAL ACUTE HEALTH EFFECTS**

Inhalation: May cause severe irritation to the respiratory tract.
Ingestion: May be 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
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 the SDS.
Reproductive toxicity: This information, if applicable, can be found in the SDS.
Sensitization of product: This information, if applicable, can be found in the SDS.
Specific Target Organ Toxicity - single exposure: This information, if applicable, can be found in the SDS.
Specific Target Organ Toxicity - repeated exposure: This information, if applicable, can be found in the SDS.

Toxicological Data:Ingredient:

lactic acid (88%)
hydrochloric acid (31%)
phosphoric acid (75%)

Data:

Oral LD50: 3730 mg/kg (rat)
Oral LD50: 700 mg/kg (rat)
Oral LD50: 1530 mg/kg (rat)
Dermal LD50: 2740 (rabbit)

Other Toxicological Information on Ingredients:**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 1760; CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC ACID, LACTIC ACID)

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulation. 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 09, 2023

Date of Revision: March 09, 2023

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

End of Document

DESCALER



March 09, 2023

Phone:

4:30pm MT



poison centre or physician.

rinse with water. Wash

eyes.

Immediately call a poison

center if lenses are present and easy

to remove.

[REDACTED]
Names

cid

[REDACTED]
ysician.

i contaminated clothing

poison centre or

nd easy to do. Continue

[REDACTED]
ring equipment.

[REDACTED]
xoop into containers.
up residual with

[REDACTED]



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