

OPTI PERM



REVERSE OSMOSIS FILTER LIQUID CLEANER

DESCRIPTION

OPTI PERM is a water-based alkaline cleaner of membranes and filters. It cleans organic and inorganic matter accumulated on synthetic membranes used in reverse osmosis. It can also be used to clean filters used in processes such as refining of sugar and starch, maple syrup, breweries, wine, beverages and the production of food grade paper. **OPTI PERM** is a phosphate and phosphorus-free product.

PROPERTIES

Appearance	Pale clear to slightly cloudy yellow liquid
Odour	Mild ammonia
pH (sol. 1%)	12.32±0.50
Specific gravity @ 25°C	1.252±0.010
Water solubility	Complete

APPLICATION

Dilute 0.7L - 1.0L (or 0.7%-1.0% v/v) of **OPTI PERM** in 100 L of water.
 Heat the solution to a maximum of 38°C (100°F) and let circulate or soak for 30 minutes.
 Rinse the system with potable water before and after cleaning with **OPTI PERM**.
TURBO COMPAK: Add 500 mL of **OPTI PERM** to a full tank of permeate.
MINI COMPAK: Add 500 mL of **OPTI PERM** to a half full tank of permeate.

PRECAUTIONS

OPTI PERM may cause irritation with eye and skin contact. In case of eye contact, rinse with copious amounts of water for at least 15 minutes and if irritation persists, consult a physician. When handling, use rubber gloves and safety chemical goggles. Do not breathe dust particles.



SAFETY DATA SHEET

SECTION 1) IDENTIFICATION

Product ID: OPTI PERM
Product Name: OPTI PERM
Revision Date: Apr 04, 2017 **Date Printed:** May 04, 2018
Version: 1.0 **Supersedes Date:** N.A.
Manufacturer's Name: Constant America Inc
Address: 7585 Cordner Lasalle, QC, CA, H8N 2R5
Emergency Phone: (613) 996-6666 / 1-888-CAN-UTEC (226-8832)
Information Phone Number: 514-761-3339 / 1-800-565-7888
Fax: 514-761-1117
Product/Recommended Uses: Nettoyant pour filtres à osmose inverse

SECTION 2) HAZARDS IDENTIFICATION

Classification

Acute toxicity Oral - Category 4
Carcinogenicity - Category 2
Serious Eye Damage - Category 1
Skin Corrosion - Category 1A

Pictograms



Signal Word

Danger

Hazardous Statements - Health

Harmful if swallowed
Suspected of causing cancer.
Causes serious eye damage
Causes severe skin burns and eye damage

Hazardous Statements - Physical

Precautionary Statements - General

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Precautionary Statements - Prevention

Wash thoroughly/hands thoroughly after handling.
Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

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

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

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

Precautionary Statements - Response

IF SWALLOWED: Call a POISON CENTER or doctor, if you feel unwell.

Rinse mouth.

IF exposed or concerned: Get medical advice/attention.

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.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Specific treatment (see first-aid on this label).

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/national/international regulation. Under RCRA it is the responsibility of the user of the products to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Physical Hazards Not Otherwise Classified

No data available

Health Hazards Not Otherwise Classified

No data available

Acute toxicity of 10.56% of the mixture is unknown

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
0000064-02-8	EDTA TETRASODIUM SALT	10.0% - 30.0%
0001310-73-2	SODIUM HYDROXIDE	10.0% - 30.0%
0001310-58-3	POTASSIUM HYDROXIDE	1.0% - 5.0%
0005064-31-3	Trisodium nitrilotriacetate	0.1% - 1.0%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED).

Eye Contact

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a flushing duration of 30 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER/doctor.

Skin Contact

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently

flowing water/shower for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before re-use or discard.

Ingestion

Rinse mouth with water. Do NOT induce vomiting. Give 1 to 2 cups of milk or water to drink. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, lie on your side, in the recovery position. Immediately call a POISON CENTER/doctor.

Most Important Symptoms and Effects, Both acute and Delayed

No data available

Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide, water spray or fog is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media

Do not use direct water stream since this may cause fire to spread.

Specific Hazards in Case of Fire

No data available

Fire-Fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Recommended Equipment

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions

Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing. Ensure adequate ventilation. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning Up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7) HANDLING AND STORAGE

General

Wash hands after use.
 Do not get in eyes, on skin or on clothing.
 Do not breathe vapors or mists.
 Use good personal hygiene practices.
 Eating, drinking and smoking in work areas is prohibited.
 Remove contaminated clothing and protective equipment before entering eating areas.
 Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and strong oxidizers. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous.
 Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Take precautionary measures against electrostatic discharge. To avoid fire or explosion, dissipate static electricity during transfer by ground and bonding containers and equipment before transferring material.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	CANsmg	CANspmm	CANtmg	CANtppm	CAN_QCV ECDmg - CANADA_ QUEBEC VALEUR D"EXPOSI TION DE COURTE DURÉE_m g	CAN_QCV ECDppm - CANADA_ QUEBEC VALEUR D"EXPOSI TION DE COURTE DURÉE_pp m	CAN_QCV EMPmg - CANADA_ QUEBEC VALEUR D"EXPOSI TION MOYENNE PONDÉRÉ E_mg	CAN_QCV EMPppm - CANADA_ QUEBEC VALEUR D"EXPOSI TION MOYENNE PONDÉRÉ E_ppm	CAN_QC - CANADA_ QUEBEC OSHA	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH TWA (mg/m3)
POTASSIUM HYDROXIDE					P2				1	C 2		
SODIUM HYDROXIDE					P2				1	C 2		

Chemical Name	ACGIH TWA (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations

POTASSIUM HYDROXIDE			URT, eye, & skin irr	
SODIUM HYDROXIDE			URT, eye, & skin irr	

(C) - Ceiling limit, irr - Irritation, URT - Upper respiratory tract

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Specific Gravity	1.252 ± 0.010
Appearance	Pale clear to slightly cloudy yellow liquid
Odor Description	Mild ammonia
Odor Threshold	N/A
pH	12.32 ± 0.50
Melting Point	N/A
Freezing Point	N/A
Low Boiling Point	N/A
High Boiling Point	N/A
Flash Point Symbol	N/A
Flash Point	N/A
Evaporation Rate	N/A
Flammability	N/A
Lower Explosion Level	N/A
Upper Explosion Level	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Water Solubility	N/A
Coefficient Water/Oil	N/A
Auto Ignition Temp	N/A
Decomposition Pt	N/A
Viscosity	N/A

SECTION 10) STABILITY AND REACTIVITY

Reactivity

No data available

Stability

Stable under normal storage and handling conditions.

Conditions to Avoid

Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

Hazardous Reactions/Polymerization

Hazardous polymerization will not occur.

Incompatible Materials

Strong acids, oxidizing and reducing agents, organic materials.

Hazardous Decomposition Products

No data available

SECTION 11) TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation, ingestion, skin absorption.

Acute Toxicity

Harmful if swallowed

Aspiration Hazard

No Data Available

Carcinogenicity

Suspected of causing cancer.

Germ Cell Mutagenicity

No Data Available

Reproductive Toxicity

No Data Available

Respiratory/Skin Sensitization

No Data Available

Serious Eye Damage/Irritation

Causes serious eye damage

Skin Corrosion/Irritation

Causes severe skin burns and eye damage

Specific Target Organ Toxicity - Repeated Exposure

No Data Available

Specific Target Organ Toxicity - Single Exposure

No Data Available

0001310-58-3 POTASSIUM HYDROXIDE

LD50 (oral, rat): 365 mg/kg (7)

LD50 (oral, male rat): 273 mg/kg (8)

SECTION 12) ECOLOGICAL INFORMATION

Classification of the substance or mixture

No data available

Toxicity

No data available

No Data Available

Mobility in Soil

No data available

Bio-accumulative Potential

No data available

Persistence and Degradability

No data available

Other Adverse Effects

No data available

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

Transport Canada Information

UN number: UN3266

Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)

Hazard class: 8

Packaging group: II

Note / Special Provision: No Data Available

U.S. DOT Information

UN number: UN3266

Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)

Hazard class: 8

Packaging group: II

Hazardous substance (RQ): No Data Available

Toxic-Inhalation Hazard: No Data Available

Marine Pollutant: No Data Available

Note / Special Provision: No Data Available

IMDG Information

UN number: UN3266

Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)

Hazard class: 8

Packaging group: II

Marine Pollutant: No Data Available

Note / Special Provision: No Data Available

IATA Information

UN number: UN3266

Hazard class: 8

Packaging group: II

Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, SODIUM HYDROXIDE)

Note / Special Provision: No Data Available

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0000064-02-8	EDTA TETRASODIUM SALT	10.0% - 30.0%	DSL,DSL_InventoryUpdate - DSL Inventory Update for year 2012,DSL_InventoryUpdate_Part2 - DSL Inventory Update for year 2012, Part 2 Substances
0001310-73-2	SODIUM HYDROXIDE	10.0% - 30.0%	DSL,CAN_QC - CANADA_QUEBEC OSHA
0001310-58-3	POTASSIUM HYDROXIDE	1.0% - 5.0%	DSL,CAN_QC - CANADA_QUEBEC OSHA
0005064-31-3	Trisodium nitrilotriacetate	0.1% - 1.0%	DSL,IARCCarcinogen,DSL_InventoryUpdate - DSL Inventory Update for year 2012,DSL_InventoryUpdate_Part2 - DSL Inventory Update for year 2012, Part 2 Substances

The information in this Section does not list components that might have relevant DSL regulatory values, if they are present at less than 100%. Please contact manufacturer for more information.

SECTION 16) OTHER INFORMATION

Glossary

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDGCanadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

Version 1.0:

Revision Date: Apr 04, 2017

Version 1.0

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