

# Ecochem

## Ec-1800 degreaser, hydrocarbon degrader

REMOVES OILS STAINS FROM CONCRETE & ASPHALT DRIVEWAYS.  
CLEANS UP OIL SPILLS IN SOIL, SAND & GRAVEL.  
CLEANS UP OIL SPILLS ON HARD SURFACES.

EC-1800 is a natural, **environmentally friendly** formulation for use in removing fresh and aged oil stains, rust and other petroleum based products from concrete, asphalt, wood, metal, porcelain, plastics, gravel, soil, sand, railroad ballast, textiles etc. EC-1800 is effective in cleaning and digesting oil spills and stains containing gasoline, diesel, stove oil, crude oil, motor oil, benzene, toluene, ethyl benzene glycol, xylene, etc.

EC-1800 contains beneficial microbes and a blend of surfactants, rust inhibitors, and nutrients all selected for their synergistic qualities and effectiveness in deep cleaning surfaces contaminated with petroleum hydrocarbons etc. EC-1800 does NOT contain chemicals, petroleum distillates or VOC's and is D-Limonene free. In addition, EC-1800 is environmentally friendly and leaves no residue.

### SPECIFICATIONS:

<b>Form:</b>	Liquid - Natural
<b>Color:</b>	Blue
<b>Nutrient Content:</b>	Biological nutrients surfactants & stimulants
<b>Specific Gravity:</b>	1.0
<b>pH:</b>	6.5 - 7.5
<b>Solubility:</b>	99.99 % in water

**EC-1800 IS SAFE FOR USE ON ANY SURFACE THAT IS COMPATIBLE WITH WATER**

### BENEFITS

- Biodegradable.
- Non Toxic - Non Hazardous.
- Non Flammable.
- Non Combustible.
- Non Corrosive - Contains corrosion inhibitors.
- Does not contain VOC's.
- Environmentally safe alternative to solvent based cleaners.
- Contains no petroleum distillates.
- Deep cleans surfaces – Provides visible results in minutes.
- Fast drying

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## Ec-1800 degreaser, hydrocarbon degrader

- D-Limonene free.
- Leaves no residue.
- Enhances the natural degradation processes.
- Eliminates unsightly areas.
- Reduces potential liability.
- Lowers disposal costs.
- Can be used in concentrated form or diluted form.

### TYPICAL APPLICATIONS

- New and aged hydrocarbon spills
- Railroad ballast
- Liquid loading in gas wells
- Concrete floors, sidewalks, parking lots, storage tanks, filling stations, docks, oil platforms etc.
- Hydro electric transformers, sumps, machinery, aircraft, rolling stock, etc.
- Parts washers
- Pressure washer

### EC-1800 CAN BE APPLIED USING THE FOLLOWING TECHNIQUES

- Spraying
- Pouring
- Circulation overflow
- Pressure Washing
- Ultrasonic Cleaning
- Parts Washer
- Dipping
- Soaking
- Brushing
- Sponging
- Wiping

### TYPICAL APPLICATION PROTOCOL - HEAVY AGED STAINS

**Step 1.** Apply concentrate to the affected area. Keep the surface wet by applying a diluted solution of EC-1800 & water or water alone while the product loosens deposits.

**Step 2.** Allow sufficient time for the product to loosen or dissolve deposits. For aged stains and rust, agitate using a fiber pad or brush, to loosen deposits and speed removal. Typically, the longer the contact time, the less agitation will be required.

**Step 3.** Rinse with water. Where rinsing is not possible, wipe the treated surface with wet cloth or sponge.

**NOTE:** Application can be carried out with the aid of a hand sprayer, conventional sprayer, pressure washer etc. Application rate, penetration time and retention time is determined by type of surface, surface temperature and type of contaminant. **WARMER TEMPERATURES WILL REDUCE CLEANING TIME.**

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## Ec-1800 degreaser, hydrocarbon degrader


EC-1800 is highly concentrated. Dilution rates are determined by type of surface, surface temperature and type of contaminant. EC-1800 may be used in concentrated form and at dilutions of up to 1:100. Application can be carried out with the aid of a hand sprayer, conventional sprayer or pressure washer.

**Step 1.** Dilute EC-1800 at the appropriate rate and spray the affected area.

**Step 2.** Allow 5 to 10 minutes for the solution to penetrate the surface.

**Step 3.** Rinse with water.

 EC-1800 can be diluted for use in aqueous parts washers, ultrasonic cleaners and pressure washers. Dilution rates may vary from 1:100 to 1:200 depending on application.

 EC-1800 is safe for use on textiles.

### PACKAGING

1 Litre HDPE Jugs  
4 Litre HDPE Jugs  
20 Litre HDPE Pails  
208 Litre HDPE Drums

### SAFETY

The materials used in the production of EC-1800 are derived from naturally occurring and sustainable sources. EC-1800 is non-caustic, non-corrosive, non-flammable and environmentally safe. In addition, It is not harmful to animals, plants and humans.

### COMPLIANCE

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3, 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8.

### STORAGE & HANDLING

DO NOT FREEZE! - Store in a cool location. (SEE MSDS)

**EC-1800 is highly efficient, has no adverse affect on the environment and is not harmful to animals, plants and humans.**

# ECO-CHEM

## EC-1800 DEGREASER

EC-1800 degreaser is biodegradable, non flammable, non combustible and non corrosive. It does not contain VOC's or petroleum distillates. In addition, EC-1800 deep cleans surfaces, is fast drying, leaves no residue and provides visible results in minutes. EC-1800 is effective in removing fresh and aged oil stains, from concrete, asphalt, wood, metal, porcelain, plastics, gravel, soil, sand, railroad ballast, textiles etc. EC-1800 is an environmentally safe alternative to solvent based cleaners.

### EC-1800 EFFICACY TESTS

**Date: Feb 4, 2005**

**Location: Hanna South**

**Ambient Temp: Minus 25C**

**Contaminant: Heavy Crude**



# ECO-CHEM

## EC-1800 DEGREASER



**Date:** Feb 4, 2005  
**Location:** Hanna South  
**Ambient Temp:** Minus 25C  
**Contaminant:** Heavy Crude



IT MAKES NO SENSE TO USE CHEMICALS TO CLEAN UP CHEMICALS

EC-1800 is highly efficient, has no adverse affect on the environment and is not harmful to animals, plants and humans.

# ECO-CHEM

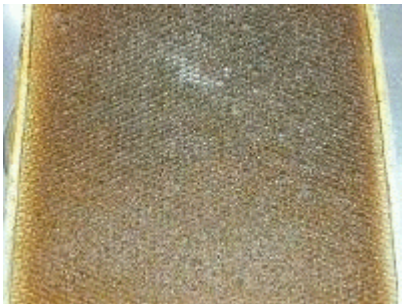
## EC-1800 DEGREASER

### **EC-1800 is safe for use in the following applications:**

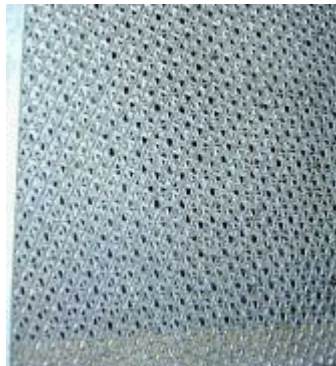
- a) New and aged hydrocarbon spills
- b) Railroad ballast
- c) Liquid loading in gas wells
- d) Concrete floors, sidewalks, parking lots, storage tanks, filling stations, docks, oil platforms etc.
- e) Hydro electric transformers, sumps, machinery, aircraft, rolling stock, etc.
- f) Parts washers
- g) Pressure washer
- h) Ultrasonic cleaners

## EC-1800 EFFICACY TEST

**BEFORE**



**AFTER**



**IT MAKES NO SENSE TO USE CHEMICALS TO CLEAN UP CHEMICALS**

# ECO-CHEM

## EC-1800 DEGREASER

### OTHER USES:

- Laundry
  - Washing walls
  - Greasy pots and pans
  - Clean up grease and oil from driveway
  - Spot cleaning fabric, upholstery, rugs etc. (always test it first to be 100% safe)
- .....the list is endless

## EC-1800 EFFICACY TEST

**BEFORE**



**AFTER**



# MATERIAL SAFETY DATA SHEET EC-1800

## I. GENERAL SUPPLIER INFORMATION

**Product Identifier:** EC-1800 Super Concentrate  
**Product Code:** 6618  
**Class:** 60 NON-HAZ  
**Application:** Hydrocarbon Degradier – Hard Surface Cleaner  
**IHC:** 3824.90.91.50  
**Manufacturer:** EcoChem Canada Ltd.  
**Address:** #1 Rng. Rd 17-4A Delia, AB, CA T0J 0W0  
**Tel:** 1-403-364-2888 / 364-2802  
**Fax:** 1-403-364-2889

## II. HAZARDOUS INGREDIENTS

None (GRAS)

## III. PHYSICAL / CHEMICAL CHARACTERISTICS

<b>Form:</b>	Liquid
<b>Color:</b>	Blue
<b>Odor:</b>	Neutral
<b>Bulk Density:</b>	0.6 - 0.8 gr/cc
<b>Solubility:</b>	99.9%
<b>pH:</b>	6.5 – 7.5
<b>Nutrients:</b>	Bio-Stimulants, Micronutrients
<b>Specific Gravity:</b>	1.0

## IV. FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point:</b>	N/A Non Flammable (Method ASTM D93)
<b>Special Fire Fighting Procedures:</b>	None
<b>Extinguishing Media:</b>	N/A

## V. REACTIVITY DATA

<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	Accumulation of product in confined area.
<b>Hazardous Byproducts:</b>	None
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibility:</b>	Normally un-reactive; however, avoid strong bases at high temperatures, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds.

## VI. HEALTH HAZARD DATA

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None know

### CARCINOGEN:

No – IARC, NTP, OSHA

### EYE CONTACT:

**General Symptoms:** May cause moderate irritation excess blinking and tear production.

**First Aid:** Flush with water - Seek medical attention as required.

**Recommended Precautions:** Safety goggles - Avoid creating mist in confined areas.

### SKIN CONTACT:

**General Symptoms:** May cause irritation if a person has a history of dermal allergic reaction.

**First Aid:** Wash with soap and water.

**Recommended Precautions:** Limit exposure.

## **INGESTION:**

**General Symptoms:** Considered non toxic but may lead to nausea or diarrhea.

**First Aid:** Drink water or milk - do not induce vomiting - Seek medical attention as required.

**Recommended Precautions:** Store in safe place - **KEEP OUT OF REACH OF CHILDREN.**

## **INHALATION:**

**General Symptoms:** May causes irritation.

**First Aid:** Calm the individual - provide fresh air - Seek medical attention as required.

**Recommended Precautions:** Use approved respiratory mask in confined areas. Avoid creating mist in confined areas. Provide ventilation when creating mist in confined areas.

**General Precautions:** Use common sense procedures - Wash hands after use.

## **VII. STORAGE AND HANDLING**

**Storage:** Store at temperatures between 41 degrees F and 104 degrees F (5 C and 40 C). Close containers after use.

**Handling:** No special handling required.

## **VIII. CONTROL MEASURES**

**Respiratory Protection:** When creating mist in confined areas

**Ventilation:** Mechanical (General)

**Gloves:** As required

**Eye Protection:** As required

**Hygienic Practices:** Wash hands after handling product.

**Waste Disposal:** Small spills can be washed away with large amounts of water. Large spills, if contained, can be returned to container. Check with regulatory agencies before disposing of large quantities.

## **IX. COMPLIANCE**

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated thereunder including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3, 710.2(e) and 720.3(c); and
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- d) Does not contain marine pollutants as defined in 49 CFR 171.8.

## **X. BIOLOGICAL HAZARD DATA**

Product has been shown to be free of Salmonella and Shigella using standard procedures outlined by AOAC and the USDA.

## **XI. PREPARATION DATA**

**Information Sources:** Suppliers MSDSs, DSL, TSCA, EPA, IARC, NTP, OSHA.

Preparation Date: March 12, 2000

Last Revised: 2006.01.21

**Disclaimer:** The information in the Material Safety Data Sheet was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE OR USE OF THIS PRODUCT.