

**Non-hazardous Biodegradable
Decontamination Cleaning Product**

DECON-IT

Non-Ionic Surface Cleaner

**BIODEGRADABLE
PHOSPHATE FREE**



**NON-IRRITATING
NON-TOXIC**



**NON-CORROSIVE
EASY RINSING**



**READILY DISPOSABLE
CONCENTRATED**



Ivey International Inc.

"Today's Environmental Solutions For A Better Tomorrow"



DECON-IT® Industrial and Commercial Cleaning Technology is comprised of a proprietary blend of non-ionic surfactant formulations that have a scientifically proven ability to desorb and liberate sorbed (adsorbed and absorbed) petroleum hydrocarbons (i.e. Jet Fuel, Diesel, Motor Oil, Lubricants, Bunker-C) and related residues from a wide range of surfaces.

DECON-IT® ADVANTAGES

- Formulated To Cut Operating Costs
- Eliminates Cross Contamination
- No Fumes
- Biodegradable
- Non-Flammable
- No Exothermic Reactions
- Non-Abrasive
- Non-Corrosive Formulation (Neutral pH)
- Phosphate Free – Chlorine Free
- Contains No VOC's, Toxic or Hazardous Air Pollutants
- Non-Ozone Depleting
- Non-Irritating To Skin
- Faster Than Conventional Products
- Easy Rinsing With No Interfering Residues
- Reduces Man-Hours And Effort Required To Complete A Project

DECON-IT® Industrial and Commercial cleaning technology is suitable for:

- Healthcare and laboratory equipment
- Personal protective equipment (PPE)
- Industrial parts and machinery
- Vapor Suppression, elimination of VOC's
- Capable of eliminating certain non VOC's including H₂S
- Effective for neutralizing pyrophoric materials
- Pipes and tanks
- Decontaminating field sampling apparatus and probing equipment
(e.g. Water Level Meters, Data Loggers, Interface Probes, Dissolved O₂ meters, etc.)

Surfaces Cleaned & Methods of Application

DECON-IT® has many applications that can help eliminate the hazards of contaminants in the workplace, from laboratories to research in the oil field. The product's non-corrosive formula and it's biodegradability factor makes it an ideal product for numerous cleaning needs from: glass, stainless steel and other metals, plastic, fiberglass, cement, porcelain, and ceramics. **DECON-IT®** is sprayable and can be used in steam injection cleaning, circulated or left to stand. **DECON-IT®** can also be applied by hand as a cleaner with sponge, brush or cloth.

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DECON-IT[®] Non-Ionic Surface Cleaner Biodegradability

DECON-IT[®] has been validated using OECD Procedures 301 E and 301 B and deemed Biodegradable. OECD Guidelines for Testing of Chemicals, Section 3 "Degradation and Accumulation", Test 301E is technically equivalent to ISO 7827: 1984 while AS 4351.2 (1996) is equivalent to ISO 7827:1994.

There are a variety of different parallel and suitable methodologies for assessing biodegradability and these are based around different methods for detection e.g. measurement of respiratory gases or reductions in dissolved organic carbon. What these methods show though is a reduction of the total quantity of surfactant by 90% within 28 days.

DECON-IT[®] has a CO₂ evolution after 28 days of 70%. There is a mechanism under the UK Offshore Chemical Notification Scheme to cause the reformulation of chemical products which have a lesser rate of decomposition under Test 301E i.e. when between 20 and 70% carbon dioxide is evolved. In this case 70 % compliance is shown so the product would be expected to be highly degradable under said conditions as encountered project sites.

Note: The discussion on DECON-IT[®] biodegradability was produced by Dr. Steven Nearhos, a Senior Microbiologist with Baseline (Australia) Pty. Ltd.

DECON-IT[®] Mixing Directions

Start with a small test area using DECON-IT[®] at full strength. Proceed with mixtures of DECON-IT[®] diluted in cold, warm or hot water, until correct concentration for test area is determined. If available, warm water is preferred. Use cold water for blood stains. If the spill or stain is aged, you may apply the DECON-IT[®] and allow it to have contact with the oils for a short period of time before wiping it off. Clean by soaking, circulating, wiping or ultrasonic methods. RINSE THOROUGHLY - preferably with running water. For critical cleaning, do final or all rinsing in distilled, de-ionized or purified water. For food contact surfaces, rinse with potable water. Product can also be used in pressure spray wash applications – foaming is likely.

DECON-IT[®] Precautions

There are no specific and or special precautions to consider, except for good industrial hygiene and safety practices employed with any industrial chemical (see Container Directions). Do not allow to freeze. DECON-IT[®] is European Union REACH compliant, Material Safety Data Sheet (MSDS) and GHS Compliant Safety Data Sheets (SDS) are available and can be downloaded at:

www.iveyinternational.com

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Categorized | [Alconox](#), [Environmental](#), [Laboratory](#), [Liquinox](#)

Does Alconox or Liquinox contain 1,4-Dioxane?

Posted on 07 March 2014. Tags: [1-4 Dioxane](#), [Alconox](#), [dioxane](#), [liquinox](#)

1,4-Dioxane

Q. Does Alconox or Liquinox contain 1,4-Dioxane?

A. Nonionic Liquinox® Critical Cleaning Liquid Detergent likely contains extremely trace levels 1,4-Dioxane, but anionic Alconox® Powdered Precision Cleaner is very unlikely to contain 1-4 dioxane. Sometimes people inadvertently refer to Liquinox as Alconox because it is made by Alconox, inc.

Liquinox is a nonionic detergent and does contain extreme trace levels of 1,4-Dioxane. In general most detergents with nonionic surfactant ingredients will have trace 1,4 Dioxane as a trace impurity from the ethylene oxide condensed polymers that are part of most nonionic surfactants.

The trace contaminant 1,4-Dioxane is found in nonionic detergents. Most nonionic surfactants are derived from alkyl groups with condensed polymers of ethylene oxide attached. The ethylene oxide polymerization process during the manufacture of the nonionic surfactant results in traces of 1,4-Dioxane being formed.

<http://technotes.alconox.com/detergents/alconox/14-dioxane/>

1/3

4/18/2018

Does Liquinox contain 1,4-Dioxane?

The trace contaminant 1-4 dioxane is volatile. The concentration will diminish with time. In Liquinox the concentration would be well below tens or hundreds of ug/L. The residue potential in a detergent used at a 1% dilution that is thoroughly rinsed would be well below single digit nanograms/L in sampling equipment; very thorough rinsing can reduce that to tenths or hundredths of nanograms/L. Labs should do equipment blanks to assure that thorough rinsing has been done whenever any nonionic detergent such as Liquinox is used.

To ask another Technical Cleaning question from our experts please visit [Ask Alconox](#) at www.alconox.com. You can also find Liquinox and Alconox detergent [technical bulletins](#) and [SDSs](#).

Tag Archive | "1-4 Dioxane"

1,4-Dioxane

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Nonionic Liquinox likely contains extremely trace levels 1,4-Dioxane, but anionic Alconox is very unlikely to contain 1-4 dioxane. Sometimes people inadvertently refer to Liquinox as Alconox because it is made by Alconox, inc.

[Read the full story.](#)

Posted in [Alconox](#), [Environmental](#), [Laboratory](#), [Liquinox](#) Comments Off on Does Alconox or Liquinox contain 1,4-Dioxane?

DECON-IT

Biodegradable Decontamination Product Environmental – Commercial – Industrial Applications

- The need for an environmentally safe surface decontamination cleaner was the basis for Ivey International Inc. developing the DECON-IT product, based on the award winning Ivey-sol® surfactant technology;
- Many of the available environmental decontamination cleaning products on the market were: slow or ineffective, caustic (acidic), not biodegradable, had by-products present, and often required additional health and safety (H&S) precautions for workers to use to apply;
- DECON-IT is pH neutral, non-caustic, biodegradable, easy to use, effective for decontaminating a broad range of contaminant off surfaces, and has minimal H&S requirements, meeting ASTM surface cleaning standards; and
- DECONIT is an environmentally green and sustainable product that can be used in environmental, commercial, industrial and residential work environments. Helps environmental field staff avoid cross contamination.



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DECON-IT® Physical Data

pH of 1% solution	7 (+/- 0.5)
Specific Gravity (g/ml)	0.99-1.04(water=0)
Density (lbs/gal)	997.0479 kg/m3
Vapor Pressure (mm Hg)	<0.01mm Hg
Flash Point (degrees F)	Not Applicable
Phosphate Content (as Phosphorus)	Not Applicable
Fragrance Content	Citrus - Grapefruit
Organic Carbon (% calculated w/w)	Not Applicable
Surface Tension 1% solution (Dyne/cm)	<30 dynes
Color:	Clear to Cloudy White
Form:	Liquid
Solubility in Water:	100%
Hard Water Effectiveness:	Highly Effective
Biodegradability:	>90% in 28 Days
Foam Tendency:	Low to Moderate
Shelf Life:	1 year in a sealed container

DECON-IT® Health & Safety Information

OSHA Hazardous Ingredients:	None
RCRA Hazard Class:	Non-hazardous
EPA Priority Pollutants:	None
DOT Hazard Class:	Non-hazardous
Flammability:	Non-flammable
Oral Toxicity:	Not Applicable
No ingredient defined as an oral toxicant by OSHA	
Eye Irritation:	Mild eye irritant if not rinsed
Inhalation Toxicity:	Non-irritating
Latex Content:	None
VOC Content:	0%
Preservation	None to Food Grade
Carcinogenicity:	NTP = No IARC = No OSHA = No
All ingredients in DECON-IT® are listed in TSCA inventory.	

Note: Information presented is typical and not to be taken as specifications.

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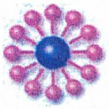
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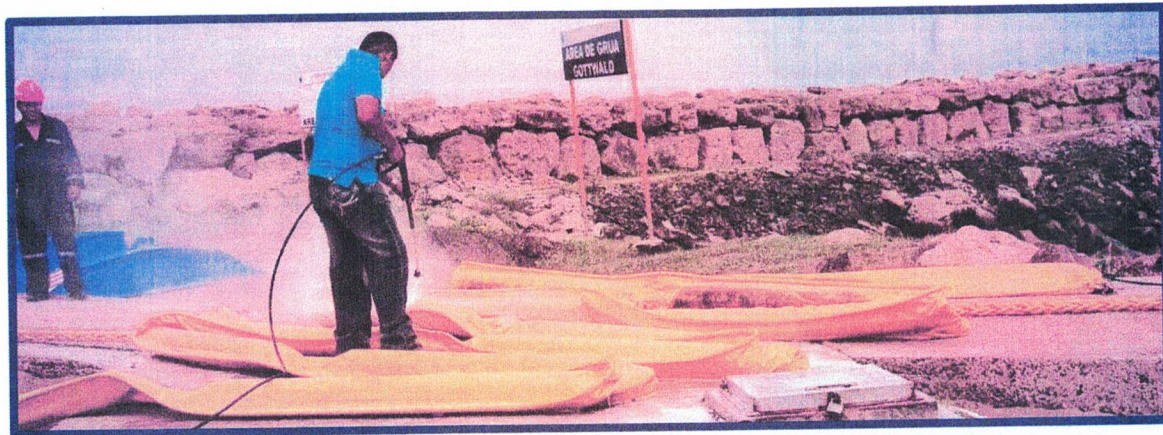
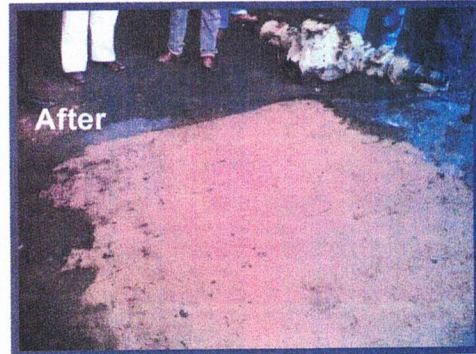


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DECON-IT[®]
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Photographs of DECON-IT[®] Applications



Ivey International Inc. is an international award winning environmental technology company with a commitment to provide outstanding products and services through the development and application of innovative air, soil and groundwater remediation technology. DECON-IT[®] and the complete range of the Ivey International Inc. products and processes have established a strong international reputation, with significant time and cost savings for our project partners and clients.

PRODUCT AWARDS: Globe Award, North American Frost & Sullivan Award, Environmental Business Journal Award, R.F Weston Awards, MYSTIC Environmental Excellence Award

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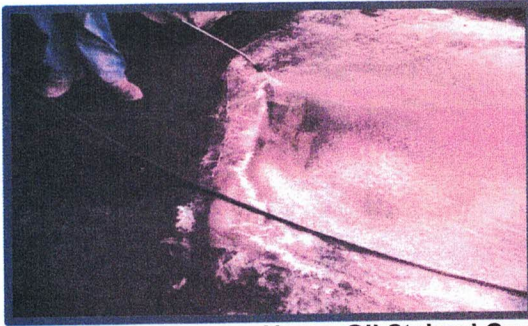


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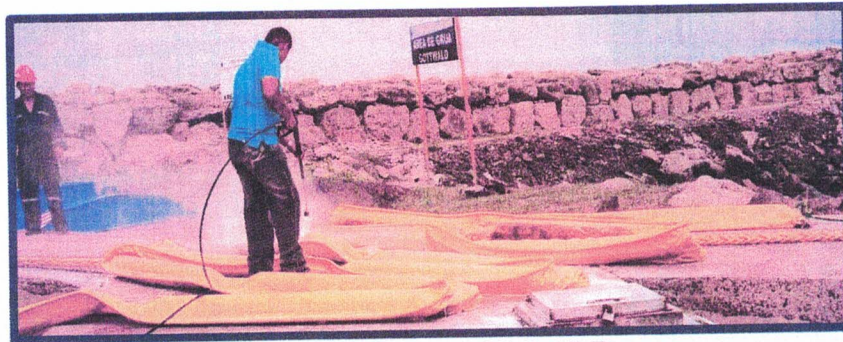
DECON-IT[®] Applications Before and After



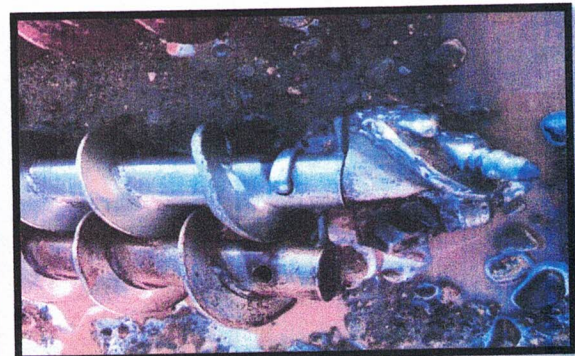
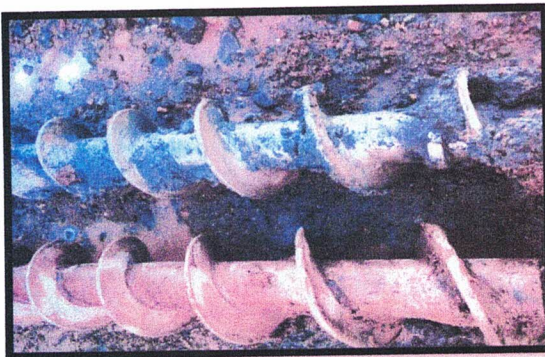
Heavy Oil Stained Concrete (Before and After)



Environmental Water Level Meter (Before and After)



Cleaning of Off-shore Oil Spill Booms



Environmental Drilling Augers (Before and After)

DECON-IT Facts

Designed To Be Selective To Classes of Contaminates

Works below the CMC (No Emulsification)

Can Desorb Sorbed LNAPL & DNAPL Range COC's

Lowers Water Surface Tension – From 73 Dynes to < 30 Dynes
(Getting Into Finer Texture Soil)

Increasing Physical, Biological, Chemical 'Availability'
For Enhanced In-situ & Ex-situ Remediation

Journal Papers, Case Studies, Testimonials, Available On Request