

## WORX READILY BIODEGRADABLE HEAVY DUTY DEGREASER

### PRODUCT DESCRIPTION

Cut / QB / R-BIO / Heavy Duty

GRADE: General use / Ready To Use

WORX Degreaser will effectively and efficiently cut heavily mattered hydrocarbon contamination from hard surfaces, equipment, and mechanical parts. When rinsed off, the degreaser will quickly release the hydrocarbons, allowing the degreaser to be easily separated from the hydrocarbons, leaving the degreaser in the water, which will biodegrade, leaving the water neutral of degreaser.

WORX degreaser will clean most surfaces. A sample test should be done on clothing, plastics, and furnishings before use.

### A locally formulated and manufactured water-based degreaser that:

- Contains potent hydrocarbon cutting properties.
- A quick break action, specifically formulated for use with oil/water gravity separators.
- Is readily biodegradable; (OECD protocol) \*
- Contains a blend of quality alkaline materials, eco-friendly surfactants, and hydrocarbon cutters.
- Is free rinsing (Leaves no residual deposits)

### The raw materials in the Worx degreaser:

- Create a micelle that surrounds the oil particle to lift and emulsify but temporarily, giving it its quick break functionality (Readily Biodegradable).
- Are industry-leading and readily biodegradable co-surfactants.
- Increase the solubility of sparingly soluble organic molecules in water. It is a molecular phenomenon whereby adding a second solute (hydrotrope) helps to increase the aqueous solubility of poorly soluble solutes.
- Are food-approved
- Control metal ions in water-based systems.
- Are especially suitable for hard surface cleaning. Its multifunctional cleaning properties enhance the removal of fatty and particulate soil in both soft and hard water.
- The corrosion inhibiting properties help to protect both metal and non-metal surfaces.
- Saponifies vegetable oils and converts them into stearate soaps. (Some Automotive oils use vegetable-based oils in low-tox lubricant oils, so this is an essential part of the formulation)

### WORX Degreaser has been specifically designed to meet three priority requirements:

1. To use the minimum amount of product to cut hydrocarbons from heavily contaminated surfaces and equipment.
2. To release the hydrocarbon molecules to allow for easy gravity separation.
3. To readily biodegrade (OECD Protocol)

## APPLICATIONS

- ✓ Household cleaning – floor, kitchen, bathroom
- ✓ Institutional cleaning – hospitality, health care, restaurants
- ✓ Industrial cleaning – metal degreasing, engine cleaning, vehicle cleaning
- ✓ Water-based multi-purpose hard surface cleaning
- ✓ Surfaces (Road, Paving, Concrete etc)
- ✓ Engines, gearboxes, etc.
- ✓ Mechanical parts
- ✓ Any item that is contaminated with oil or grease (See below for dilution ratios)

## WORX Degreaser will deep clean:

- Roadways (All types) matted with grease, oil, hydraulic oil, brake fluid.
- Workshop floors
- Equipment surfaces
- Hydraulic components
- Engines
- Drive trains
- Plastic surfaces

Can be used on all surfaces and is suitable for use on ferrous and non-ferrous metallic surfaces, painted surfaces and most plastics.

## Dilution ratio:

- **Heavy cleaning** use as supplied.
- **Light cleaning** dilute as required, (Up to 1:3) mix with warm water, use to wash vehicles, oily areas, work tops, floors, walls, plastic upholstered seats, overalls, any item that is contaminated with oil or grease. (A sample test should be done on plastics, furnishings, clothing before use)

## DIRECTIONS FOR USE

Using spray equipment or similar, lightly saturate the area, allow to remain in contact for 10 minutes, agitate with a hard brush or similar, then rinse using a high-pressure wash.

## CAUTION

When used regularly, Personal Protective Clothing to be worn - Chemical approved safety goggles, breathing mask, PVC aprons, rubber gloves and rubber boots.

- Contains no NTA.
- Contains no EDTA.
- Contains no phosphates.
- Does not Bio-accumulate.
- Does not Cause Eutrophication.
- Harmful if swallowed.
- Prevent contact with eyes.
- Keep out of reach of children.

#### FIRST AID

- **Skin:** Wash with soap and water, Apply a moisturising cream
- **Eyes:** Flush with plenty of water
- **Ingestion:** Drink plenty of water, do not induce vomiting, seek medical attention

#### STORAGE

Store at room temperature, out of the sun.

#### TYPICAL PHYSICAL CHARACTERISTICS

Appearance:	Light brown liquid
Base:	Water
Odour:	Neutral
pH:	11,0
Density @ 20C (kg/l):	1,05
Solubility:	Complete
Quick Break Action:	Yes
Biodegradable:	Yes
Environmentally Friendly:	Yes
Maximum Dilution Factor:	10 x
Packaging:	25lts, 210lts, 1,000lts

#### Following are the compliance directives that the main chemicals conform to in the degreaser formulation:

1. The EU Detergents Regulation (EC) No 648/2004 compliant
2. SARA (Superfund Amendments and Reauthorization Act USA)
3. SARA 302/304/311/312
4. SARA 302/304
5. SARA 302/304/311/312
6. REACH Registration Number: 01-2119493601-38-0000

#### \*OECD Test No. 301: Ready Biodegradability

**Readily biodegradable:** A classification of chemicals which have passed certain specified screening tests for ultimate biodegradability; these tests are so stringent that it is assumed that such compounds will rapidly and completely biodegrade in aquatic environments under aerobic conditions.

The pass levels for ready biodegradability are 70% removal of DOC and 60% of ThOD or ThCO<sub>2</sub> production for respirometric methods. These pass values must be reached in a 10-d window within the 28-d period of the test.

For further information please contact:

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