**GREEN LIFE GROUP**

**TECHNICAL DATA SHEET**

**HEC - Heat Exchanger Cleaner**

**Description**

A Safe cleaner and a powerful, biodegradable, water based degreaser, oil dispersant and sanitizer

GREEN UP HEC is a powerful non chlorinated cleaner for the cleaning of metallic surfaces special for heat transfer systems. Does not damage rubber, plastic, metal or stainless steel surfaces  
 GREEN UP HEC is a water based degreaser and oil dispersant, which has proved to be a versatile cleaning agent

in factory and workshop situations where  degreasing cleaning or where a fast drying solvent cleaner is required.  
GREEN UP HEC is made from renewable raw materials –glucose derived from corn, and  fatty alcohols from coconutand palm kernel oils due to its natural chemistry, mixt with natural silicates.

This product is very mild, low in toxicityand readily Biodegradable

**Advantages**

Green HEC is not poisonous or flammable. It disinfects and very effectively dissolves oils and cleans greasy dirty surfaces.

It has a pleasant odor and does not affect breathing passages. It is not corrosive, does not damage plastic, metal, marble, formica, or tile.

It cleans stainless steel and aluminum surfaces.  
It also can be used for cleaning upholstery, cars including engines, and print rollers of printing presses.

**Applications**

HEC Cleaner has been specially formulated to remove oil, grease and general workshop grime from metal surfaces in preparation for HEC dye penetrant and developer application.

This product may also be used as a general workshop degreasing cleaning or where a fast drying solvent cleaner is required.

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**Summary of Benefits**

* **Excellent Cleaning Action**
* **Non flammable**
* **Final stage Clean Up of oil pollution and oil spills**
* **Machinery cleaning**
* **Not Harm the inviroment**
* **Can be applied in wet areas**
* **Can be deluted with water**
* **Does not discharge toxic gas or syntethics solvent  smell**
* **Does not risc the breathing way**

**Physical Properties**

Appearance                                         Clear colorless  liquid  
Density                                                1.06

Flash Point                                           None

Solubility in water                               Immiscible

Colour                                                  Pale Colored

Odour                                                   Barely perceptible odour

Density                                                1.06

Flash Point                                           None

Flammability                                        None

Flammable Boiling Temperature/ range ->100 C

Solubility in water                                Immiscible

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**Directions for use**

HEC is a cold, ready-to-use product. Do not mix or dilute with any other   Substance.

1.  Isolate the oil supply, disconnect the heat exchanger oil inlet and outlet, drain off any remaining oil.

2.  Connect the discharge side of Cleaning Unit (CU) to the lower heat exchanger connection and fit the return to the CU.

3.  Add HEC to the drum and heat, maintaining the temperature (max 75°C) throughout the cleaning operation FOR 8-10 hours. If heating is not available, and fit the return to the CU

Circulate for 24 hours. When the cleaning is complete,    disconnect the lower heat exchanger connection and drain.

4.  Connect a high pressure fresh water supply to the upper heat exchanger connection.

Rinse until water runs clear.

5.  Disconnect, drain and dry.

6.  Can further use of another system cleaning

**Precautions**

This product is for external use only. Not to be swallowed. If swallowed, drink a large amount of water or milk and seek medical attention. Avoid contact with eyes. In case of eye contact rinse with large amounts of water.  
Keep this cleaning product away from children.  
Keep the container closed and do not expose to extreme temperatures.

**Components**

This is a cleaning product which is water based and includes a mixture of active enzymes which dissolve oils, grease and dirt.

These components are based on coconut, pineapple, and citrus extracts.  
None of the components is animal based and no animal testing is done on Green Up products

All the components decompose in nature and fit the definition of biodegradable.

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**Pack Sizes**

18lt,   205lt barrels, 1000ltr

**Health and Safety**

For full Health and Safety data please refer to our specific MSDS Sheet**.**

**Shelf Life**

  3 Years from date of manufacture