

**A powerful cleaning agent easily able to separate and lift all forms of hydrocarbons from all substrates without damaging the surface.**



RAW's non-toxic, non-flammable Tank Cleaner is designed to lift and not burn hydrocarbons off of sidewalls and floors.

### RAW Biochem Is

Readily Biodegradable  
Non-Reactive  
Non-Toxic  
Non-Corrosive  
Non-Hazardous  
Not Flammable  
Contain No VOC's

### RAW Biochem Products Do NOT Contain

Petroleum Distillates  
Glycol Ethers  
Caustics  
Ozone Depleting Agents  
Nonylphenols  
Endocrine disruptors

RAW's Tank Cleaner is safe and effective and can be used in all manner of mechanical or manual processes. When activated with water, the product forms an emulsion of nano-sized micelles that penetrate the hydrocarbon mass, thus reducing the viscosity and allowing it to be readily pumped from the tank. Tank Cleaner will separate all hydrocarbons and waxes from sidewalls and floors leaving behind a fresh smelling tank. The nearly invisible polymer residue aids in preventing contaminant re-adherence. Cleaning is easier the next time.

RAW's tank cleaner is the first step in cleaning.

- Optional foaming agent allows product to dwell on vertical surfaces longer than standard chemicals and accelerates the cleaning process
- Helps to neutralize odours in the tank
- Plant based formula does not require special equipment or procedures.
- Readily biodegradable formula means that any product spill will disappear in 28 days when in contact with naturally occurring micro-organisms, oxygen and water

Other benefits include:

- No special clean up requirements in the event of a spill.
- Used cleaner can be recycled and re-used for the most cost-effective solution on the market. Simply collect the run off, separate the hydrocarbons and sludge and re-use the cleaner.
- Solubilizes paraffin, asphaltenes and waxes and aids in neutralizing aromatics such as benzene.
- Minimal heat or mechanical agitation is required
- Work safe procedures are at a minimum with no special handling procedures required.

## TECHNICAL DATA SHEET

### Description

RAW's Tank Cleaner is a concentrated blend of readily biodegradable ingredients which revert back to their natural state when in contact with naturally occurring micro-organisms, oxygen and water.

The active ingredients are safe to use on all substrates and will not damage steel, glass, fiberglass or plastic.

### Physical State

### Liquid

Colour	Amber
Odour	Mild
pH	8.4 – 8.9
Base	Plant Extracts
Persistence & Degradability	Readily Biodegradable

### Directions for Use

RAW's Tank Cleaner is a powerful cleaning agent easily able to separate all forms of hydrocarbons from all manner of substrates.

RAW chemicals are a direct replacement for the dangerous and environmentally harmful effects associated with traditionally caustic and toxic petrochemicals used for tank cleaning.

#### Directions for Use

- Oil Storage Tank Cleaner can be purchased as a Concentrated or as a Super-Concentrated formula for dilution at the site to the cleaning strength required by the specified task
- Dilution range is dependant on each application.
- Apply with a pressure washer, sprayer, pump or pressure flush system at 165<sup>o</sup> – 180<sup>o</sup> F (74<sup>o</sup> – 82<sup>o</sup> C)

- Allow to dwell. Optimum dwell time will vary depending on thickness or depth of accumulated sludge.
- Repeat action if required.
- Special circumstances such as significant accumulated depth may require additional actions such as external agitation with a Murphy or fluidic pulse pump or pressure washers.

**WARNING:** Oil Storage Cleaner may damage or strip painted surfaces or those with various other forms of hydrocarbon-based coatings if allowed to dwell for extended periods. To prevent damage, test dwell time prior to application.

### C.H.A.T.

**Chemical:** Unlike typical petrochemicals, RAW formulations may not perform as well with higher concentrations of product than they would with higher dilution rates. In a new process or application, trials are strongly recommended to achieve the correct chemical concentration.

**Heat:** The optimum temperature ranges from 43<sup>o</sup>C – 80<sup>o</sup>C. Product can be used in steam applications up to 490<sup>o</sup>C (540<sup>o</sup>F).

**Agitation:** Where applicable, agitation aids in dislodging soils from surfaces so they can be rinsed away.

**Time:** Dwell time is dependant on the application, heat and chemistry but generally speaking, longer dwell times enable more satisfactory results.