



INNOCHEMS
TECHNOLOGIES

Green Chemical

HERBAL NATURAL

www.harweelbridge.com

SEAFTY FIRST | ZERO CARBON EMISSIONS

WHY NEED GREEN CHEMICALS?

Industrial chemical is an essential process in the oil and gas industry, as it helps to remove various types of contaminants from process, equipment and pipelines used in the exploration, production, and transportation of oil and gas. The process is critical in maintaining the integrity and efficiency of the process assets and preventing failures, which can lead to costly downtime, safety hazards, and environmental damage.

Chemical cleaning and decontamination involve the use of specialized chemicals to break down and remove various types of deposits and contaminants that accumulate over time in the oil and gas equipment. The contaminants can include scale, rust, corrosion, and various types of fouling such as hydrocarbons, asphaltene, and wax in addition to toxic gases and Mercury. Chemical cleaning and decontamination can be applied to different types of equipment and pipelines, including heat exchangers, boilers, pumps, pipelines, tanks, and vessels.

ABOUT US

The field of oil and gas companies in Oman and global sectors looking forward on using green chemicals which are mainly removing hazards same time safe handling and interaction by human and to environment, this is comply with Oman 2040 vision for green development in different sectors in addition to developing small and medium enterprises.

Harweel has signed a partnership agreement with InnoChems Technologies SDN BHD as service provider in Oman and UAE with Co-founder Prof. Abdulaziz from Malaysia, founder of InnoChems Technologies and inventor of InnoChems Chemical Products, thier products have been proved friendly environmental products helps to decontaminate toxic gases such as H₂S in the oil and gas process in addition other contaminants such as LEL, phropheric and Mercury. Using this chmeical will maintain the safety of workers and field neighbors , also will protect livestock grazing nearby stations and wells.





VISION

To be a major green chemical factory in 2030, supplying Oman and regions with green effective chemical to ensure human, livestock safety and clean environment, furthermore contribute into 2040 Oman vision.



MISSION

- To ensure chemical safety handling by workers and no impact to environment.
- Maintain integrity and efficiency of oil and gas assets such equipment and pipelines.
- Continously supply green chemicals and services without delays taking quality inconsideration.
- Provding chemical cleaning and decontamination services within shorter time comparing with other ordinary chemicals.
- Clients satisfaction is important, proving green chemical effectiveness increasing reliability, availability and productivity.

PRODUCTS

HYFREE PLUS

DESCRIPTION

HyFree Plus is a specifically formulated chemical that will eliminate toxic gases and hydrocarbon vapor during plant turnaround, storage tank decontamination and cleans the walls of a vessel preventing the release of vapor from any scale that may remain.

PERFORMANCE FEATURES

Converting Toxic Gas and Hazardous Vapors to more soluble products for easy removal, freeze stable. Can be diluted up to 1:500, more efficient than standard chemicals used to inhibit sulfur compounds.
Can be used in sour oil or gas process system.

APPLICATIONS

HyFree Plus can be used with steam or with a water circulation method. During decontamination works, levels of Toxic Gases such as H₂O and LEL are continually measured, when these reach zero (0), the vessel is drained and is safe to enter.

HyFree Plus is also used to break sludge, heavy hydrocarbon and coke during column and tank cleaning.



MERCURY99

DESCRIPTION

MerCure 99 is a formulated chelating agent, designated to transform elemental and compound mercury found in vapor into stable mercury salt in an aqueous form. It is powerful solution that is used for mercury decontamination in airborne.

PERFORMANCE FEATURES

MerCure 99 is a water-base chemical, freeze stable, biodegradable, non-toxic and non-corrosive for materials, used to remove mercury form atmosphere and convert it to a mercury salt in water.

APPLICATIONS

MerCure 99 was widely use for decontamination of vessels, equipments and plant maintenance. It will be used with steam/water circulation or with manual spray or soaked in solution.

DECONTAMINATION SERVICES

- Innochem Company – Sultanate of Oman
- Supply of Decon Chemicals (Hyfree Plus & FSOL 500).
- Can be performed in vapor and liquid phase.
- Prepare the process equipment for immediate man-entry within a duration of 36 to 48 hours.
- **Decontamination process shall make the process equipment with:**
 - Zero LEL
 - Less than 0.5 ppm benzene
 - Zero H₂S
 - Deactivate pyrophoric materials (i.e Hot work can start)
 - No prolonged steaming or nitrogen purging is required.

DECONTAMINATION APPLICATIONS:

- Desalters, Heat exchanger's, Crude unit distillation columns
- Vacuum columns, Atmospheric Towers & Fract. Columns
- Visbreaker Units & Re-boilers
- Fluidized catalytic cracker units (FCCU)
- Sour water strippers, Amine recovery units
- Flare knockout drums and headers, Quench water Column & CGC system
- Separators, Scrubbers & Absorbers
- Merox system equipment & De-butanizer's
- High / Low Pressure Flash Drums
- Packinox Exchangers, Carbon Absorption drums
- Crude Oil Storage Tanks/ Sump Pits

BENEFITS

- Reduces shutdown time.
- Steam out time minimized.
- Eliminates requirement for additional mechanical cleaning.
- Cost effective.
- Hot work can begin immediately on vessel entry.
- Environmentally sound.

CHEMICAL CLEANING:

- Reboiler, heat exchanger and cooler - Pit, Sum and underground sewage
- Tank and vessel
- Oil well and pipeline descaling

SPECIAL DESIGN, FABRICATION AND TREATMENT:

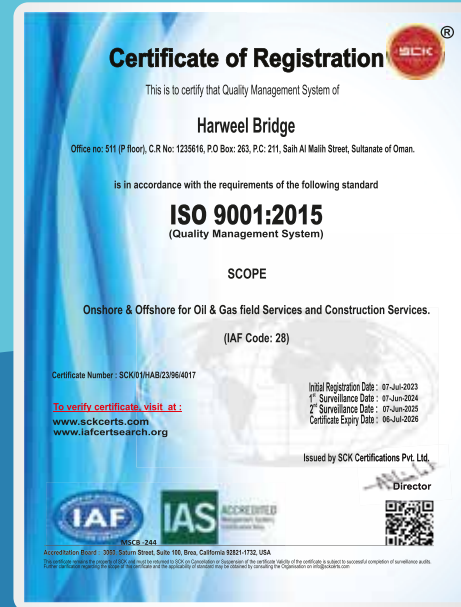
- Mercury contaminated liquid waste treatment
- Oxidative Desulfurization for low sulphur
- Diesel (EURO 4 standard)
- Ultrasonic cleaning services.

IN HOUSE LABORATORY ANALYSIS TO PERFORM VARIOUS TEST SUCH AS:

- Waste water
- Scaling or Fouling
- Catalyst Disposal
- Oil & Gas Properties



CERTIFICATIONS




OUR PARTNERS



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