

chemt<sub>ex</sub>

# OILFIELD AND REFINERY CHEMICALS

UPSTREAM | MIDSTREAM | DOWNSTREAM  
FUEL ADDITIVES | UTILITY | PERFORMANCE



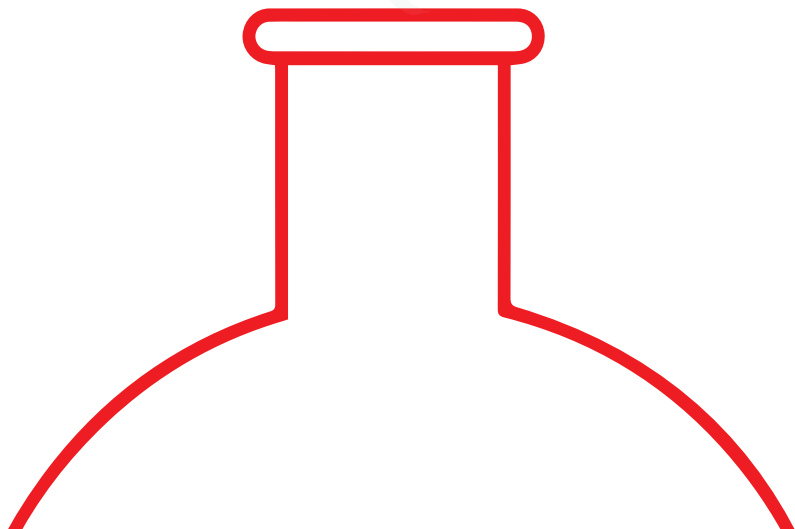
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**600<sup>+</sup>**  
*High Performance  
chemicals & >3000 SKUs*

**98.5** *KMT*  
*Annual Production  
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## **Upstream**

**05**

Drilling and Mud Chemicals | Production Chemicals  
Well Simulation Additives | Water Injection Chemicals

## **Midstream**

**10**

Crude Tank Farm Chemicals | Pipeline Chemicals

## **Downstream**

**12**

Primary Unit Chemicals | Secondary Unit Chemicals  
(ARU, SRU, CRU, DHDT, FCCU, HGU) | Finished Fuel Additives

## **Utility**

**14**

Process Cooling & Heating Chemicals  
(Boiler, Cooling Tower, Chiller) | Desalination Plant Chemicals  
Wastewater Treatment Chemicals

## **Performance**

**17**

Organic Acids | Quats & Aldehydes  
Imidazolines | Silicones | Polyacrylates & Polyacrylamides  
General Treatment Additives

# Manufacturing Capabilities

## Amidation

Synthesis of acid chlorides, acid azides, acid anhydrides, and esters with amine or ammonia, undergoing carboxylic activation.

## Saponification

Hydrolyzing an ester to form an alcohol and a salt of a carboxylic acid or soaps, in essential conditions.

## Neutralization

Formation of neutral salt through reaction of an acid with a base.

## Polymerization

Reaction of monomer molecules to form polymer continuous chains or three-dimensional network through condensation or free radical synthesis.

## Redox Reaction

Oxidation-Reduction reactions, causing change in oxidation states of reactants, forming high performance specialties

## Esterification

Organic acid made to react with alcohol to form an ester.

## Emulsification

Two or more immiscible liquids, one of which is dispersed as small droplets within the other, forming emulsion.

## Quaternization

Alkylation of tertiary amines with a halocarbon, converting the amine into a salt, in presence of a polar solvent.

## Ring Closure Reactions

Chain of variety of reactions, introducing one or more ring into a molecule, forming new heterocycle.

## Bio Reaction

Process where chemical synthesis occurs in organic substrates through enzymatic action.

## Cyclization

Chemical transformations, forming cyclic product through selective radical generation, or conversion of the cyclized radical.

*\*other physical capability includes Blending (aqueous, oil), Spray Drying, Pulverizing, etc.*

# Upstream Chemicals



Exploration



Development



Production

## Drilling and Mud Chemicals

### Drilling Polymer:

Anionic and Zwitterionic high molecular weight PHPA drilling polymers, finds extensive use as bore-hole stabilizer by preventing shale swelling and erosion.

Range	Active Chemistry
CX DRILL	Low Temperature / High Temperature PHPA Polymer
Polymer XCD	Modified Xanthan Gum Bio - Polymer

### Water Shut Off PHPA:

Anionic polyelectrolytes for use in preventing excessive water production that surfaces up during bore-hole drilling.

Range	Active Chemistry
ALSTAFLOC WS40 HT	PHPA - High temperature water shut off
ALSTAFLOC WS40 LT	PHPA - Low temperature water shut off

### EOR Polymer :

Anionic long chain polymer, for use in improving the vertical and areal sweep efficiency of oil well, improving water / oil mobility ratio.

Range	Active Chemistry
CHEMTEX 5930	Anionic Polyacrylamide
CHEMTEX 5930-L	Anionic Polyacrylamide (Liquid Emulsion)

**Drilling Detergent :**

Non-ionic surfactant, emulsifies drilling liquids, cleans borehole and reduces friction, ensures smooth fluid movement, for use in Drilling (Upper-Hole Drilling to reduce Bit and Bottom Hole Assembly Balling), Production, Enhanced Oil Recovery and Stimulation.

Range	Active Chemistry
DETPOL D-100	Surfactants, Emulsifier

**EOR Surfactant :**

Additive compatible with both fresh and brine water solution, boosts oil production by lowering interfacial tension, increasing oil mobility, thus allowing better displacement of oil by injected water, enhancing tertiary crude oil extraction.

Range	Active Chemistry
CHEMTEX 5939	Anionic Surfactant

**Defoamer :**

Unique foam controlling additives that rapidly mixes into the layer of bubbles formed over the surface fluid and destabilizes their film wall strength, with reduction in fluid viscosity.

Range	Active Chemistry
CHEMTEX 4320	Non-Silicone based / Water Soluble
CHEMTEX 4325	Silicone based / PDMS / Oil Soluble

**Drilling Bactericide:**

Organic antimicrobials, for controlling bacterial or microbial induced contamination in hydrocarbon production process, drilling, completion, or flooding, that can plug the formation and wellbore.

Range	Active Chemistry
CHEMTEX 5001	Aldehyde Type
CHEMTEX 5005	Amine Type
CHEMTEX 5009	Non-Aldehyde Non-Amine Type
CHEMTEX 5012	Tetrakis Hydroxymethyl Phosphonium Sulphate (THPS) based
CHEMTEX 5015	Triazine based

**EP Lube :**

High performance lubricant to avoid wear and tear of drilling equipment at high temperature and pressure conditions, forms a protective coating, that reduces drag, friction, torque, drill bit balling.

Range	Active Chemistry
CHEMTEX 5941	Fatty Acid Derivatives

# Production Chemicals

## Oil & Gas Corrosion Inhibitor :

For use in oilfield production and well sites operations, provides protection against carbon dioxide, hydrogen sulphide and dissolved oxygen gas induced corrosion.

Range	Active Chemistry	Application
CHEMTEX 5161	Quaternary Salts, Polymer	Oil/Gas lines, Oil/Gas production wells
CHEMTEX 5164	Alkylamines, Organic Salts	Formation Shale
CHEMTEX 5165	Filming Amines	Deep Water Applications
CHEMTEX 5168	Filming Amines	Downhole Tubulars and Equipment
CHEMTEX 5170	Film Forming Amines	Crude Pipelines and Drilling Well Sites

## Hydrogen Sulphide Scavenger :

Triazine based H<sub>2</sub>S Scavengers, for use in removal of toxic hydrogen sulphide in liquid/vapor phase from drilling wells, field condensates and natural gas

Range	Active Chemistry	Application
CHEMTEX 5261	50% wt. MEA Triazine	Well Heads, Mixed Production, Downhole Subsea, Bulk Storage Tanks
CHEMTEX 5262	55% wt. MEA Triazine	
CHEMTEX 5265	30% wt. MEA Triazine	
CHEMTEX 5270	77% wt. MEA Triazine	

### CHEMTEX 5260

H<sub>2</sub>S Scavenger synergized with Ter-Polymer based Scale Inhibitor

#### Active Ingredients

1, 3, 5-Tris (2-hydroxyethyl) hexahydro- triazine, CAS No. 4719-04-4 : 49.0% wt. (Min.).  
Ter Polymer: 3.0 – 7.0% wt.

## Oxygen Scavenger :

Dissolved oxygen coming out with water during pumping off tends to corrode metal pipelines, which can be prevented through application of oxygen scavenger.

Range	Active Chemistry	Application
CHEMTEX 5350	Catalyzed Sodium Bisulphite	Production Pipelines, Wellbore
CHEMTEX 5360	Catalyzed Ammonium Bisulphite	

## Demulsifier :

For use in breaking oil- water emulsion, reducing water content in produced water, resolving tight water in oil emulsion concerns, and providing rapid breakup of the water-emulsion interface layer.

Range	Active Chemistry	Application
CHEMTEX 5060 Series	Phenolic Resins Ethoxylates	Downhole, Production Pipelines and Storage
CHEMTEX 4210 Series	Lower Aliphatic Amines	

**Flow Assurance Additives :**

Polymeric additives, disperses wax crystals in crude oil itself, reduces pour point and viscosity, ensuring constant crude flow even at sub-zero temperature.

Range	Active Chemistry	Application
CHEMTEX 4621 CHEMTEX 4635	Wax Dispersants based on Acrylates	Production Pipelines, Formation Wells
CHEMTEX 4906 CHEMTEX 4908	Flow Improver based on PAMA Polymer	
CHEMTEX 4560	Pour Point Depressant based on Organic Co-Polymer, Acrylates	

## Coalbed Methane (CBM) Gas Production Chemicals

**Drilling Polymer :**

Polymeric additive that prevents reactive shale and clay from swelling, added to low-solids drilling fluids to increase lubricity, fluid viscosity, and to improve carrying capacity of air/foam injection fluids.

**Biocide :**

Chemical additive for use in controlling formation of aerobic slime formers and anaerobic bacteria (SRB), during water injection and disposal system.

**Acid Corrosion Inhibitor :**

Organic corrosion inhibition additive, preventing formation of rust and pitting corrosion on steel tubing and downhole tools.

**Oxygen Scavenger :**

Catalyzed bisulphite-based oxidation induced corrosion prevention additive for steel pipeline internals, that removes dissolved oxygen, coming out during pumping off, when methane is extracted.

**Foaming Agent :**

High wetting potency with excellent foam stabilizing properties, acid / alkali stable, effective across all levels of brine and in the presence of hydrocarbons, rapidly loosening standing columns of water by lowering the surface tension of the drilling fluid.

# Well Stimulation Additives

## Acid Corrosion Inhibitors :

Corrosion prevention additive blended with dispersants, surfactants, and solvents, alleviates high temperature corrosive reaction of hydrochloric acid and hydrofluoric acid (for sandstone formation) on metallic equipment.

Range	Temperature Limit	Application
PROTODIN OG-1	175°C/347°F	Formation Wells, Production Tubing, Downhole Tool
PROTODIN OG-2	120°C/248°F	
PROTODIN OG-3	100°C/212°F	
PROTODIN OG-4	80°C/176°F	
PROTODIN OG-5	150°C/302°F	

## Mutual Solvent:

Typical additives used oil field and well stimulation applications that requires higher solubility degree in oil, water and acid-based fluids, helps in breaking up of crude emulsions and enhancing the rate of crude production.

Range	Active Chemistry	Application
CHEMTEX 4920	EGMBE	Flow Line from Reservoir to Well Bore

## Iron Stabilizer:

Iron control agent for use in preventing deposition of iron hydroxide during acid molecules breakdown in oil well stimulation process, increasing crude production and flow rate in processing and pipeline units.

Range	Active Chemistry	Application
CHEMTEX 5990	Complex Metal Salt of EDTA	Production Tubing, Well Acidizing

# Water Injection Chemicals

## Water Injection Corrosion Inhibitor :

Forms a thin protective layer over the metal surface, gets adsorbed in it and inhibits corrosive agents to undergo oxidation reaction with metallic ions.

Range	Active Chemistry	Application
CHEMTEX 5166	Film Forming Amines	Water injection line

## Scale Inhibitor :

Prevents and controls scale deposition, ensuring optimum flow assurance of crude oil at high pressure, high temperature and aggressive environment conditions.

Range	Active Chemistry	Application
CHEMTEX 5100	Phosphonate and Polymers	Water injection line
CHEMTEX 5110	Organo-Phosphonates	

## Bactericide :

To control adversities of aerobic slime formers and anaerobic bacteria, which occur in oilfield water injection and disposal systems.

Range	Active Chemistry	Application
CHEMTEX 5001	Aldehyde based	Water injection line

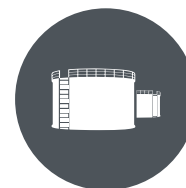
# Midstream Chemicals



Pipeline



Transportation



Storage

## Crude Tank Farms

### Crude Tank Cleaner and Sludge Remover :

Additives for use in separation of hydrocarbon layer from the sludge solution and transferring it into diluent medium, increasing tank storage capacity, bringing down the time required for cleaning.

Range	Active Chemistry	Application
CHEMTEX 4651	Organic Surfactant, Emulsifier	Crude Storage Tanks

### Degassing Additive :

For removal of all harmful, toxic and flammable gases from closed chamber or tank, reducing chances of most fire accidents and other unwanted events. Additives are non-reactive to any crude/fuel reaction

Range	Active Chemistry	Application
CHEMTEX 4901	Proprietary	Closed Chambers and Storage Tanks of Crude Oil, Fuel Oil, Diesel, Bio-diesel, Gasoline

## Pipeline Chemicals

### Crude Line Corrosion Inhibitor :

For use in crude oil and gas transmission pipelines, neutralizing the presence of corrosivity of mineral salts, carbon dioxide, dissolved oxygen and hydrogen sulphide gases in production wells and petroleum lines.

Range	Active Chemistry	Application
CHEMTEX 4181	Keto-amines, Water Soluble Solvents	Header Lines
CHEMTEX 4184	QAC, Polar Solvents	Sweet Gas Production Wells
CHEMTEX 4185	QAC, Polar Solvents	Sour Gas Production Wells
PROTODIN	Film Forming Amines, Oil / Naphtha Soluble	For LPG, Gasoline, Petroleum Lines

### Hydrotesting Corrosion Inhibitor :

Corrosion Inhibitors based on Catalyzed DEHA has been specifically formulated to prevent metal and steel corrosion by forming an organic repulsion layer over its surface, inhibiting general and pitting corrosion. It also acts as an oxygen scavenger to prevent oxidation corrosion.

Range	Active Chemistry	Application
PROTODIN HT	Organic Inhibitor,	Interior Metal Surfaces of Fuel Tank
PROTODIN HT3	Organic Inhibitor, Catalyzed DEHA	Mild / Carbon Steel Pipelines (Sea / Brine Water)
PROTODIN HTHP	Cationic Inhibitor, Catalyzed DEHA	API 5L Pipelines
PROTODIN HTL	Cationic Inhibitor, Catalyzed DEHA, Terpolymer	Hydrotesting, Pipeline Mothballing, Metallic Assets Preservation

*These formulations have been extensively tested for its toxicity to aquatic life and are chemically approved by NTC, CMFRI, and SUCO FINDO for it being environmentally safe to be discharged back to the sea after hydrotest completion, without interfering with BOD and COD level of water.*



### Scale Inhibitor :

Inhibitor additives for combating organic and mineral scale deposits in midstream pipelines and equipment, reducing their accumulation in production wells, water disposal wells, flow lines and surface equipment.

Range	Active Chemistry	Application
CHEMTEX 5100	Phosphonate and Polymers	Flow Lines and Surface Equipment
CHEMTEX 5101	Organo-Phosphonates	Water, Disposal Lines & Surface Equipment
CHEMTEX 5105	Terpolymers	Dedicated Fluid Pipelines, Valves and Pumps
CHEMTEX 5112	Neutralized Phosphonates	Ca/Ba/Mg/Sr salts

### Pipeline Cleaning Agent :

Surfactant based formulation, for use as surface cleaner and degreaser in transmission lines to remove deposits of TAN, iron sulphides, oxides, organic solids, from pipeline internals before transportation of crude from production to refinery units.

Range	Active Chemistry	Application
DETPOL X-100	Non-ionic surfactant	Crude Oil Pipelines

### Wax, Paraffin, Asphaltene Inhibitor :

Coercive, aqueous-based dispersions, formulated to control deposition of wax, paraffin, asphaltene, insoluble impurities in storage tanks, increasing production output and reducing frequency of work-over operations.

Range	Active Chemistry	Application
CHEMTEX 4621 (Wax Dispersant)	Acetates, Poly-Acrylates, Non-Flammable Solvents	Crude Oil Pipelines, Storage
CHEMTEX 4635 (Wax Inhibitor)		Crude Oil Pipelines, Storage
CHEMTEX 4637 (Asphaltene Inhibitor)		Crude Oil Pipelines, Storage

# Downstream Chemicals



Crude Refining



Petrochemicals

## Primary Units

### Antifoam :

Silicone based antifoaming agent for use in coker units, helps in removal of trapped air over the surface fluid, preventing foam carryover in a coke drum to coker fractionator.

Range	Active Chemistry	Application
FOAMLOC DCU	Silicone based; PDMS	Delayed Coker Unit
FOAMLOC PG	Poly Alkylene glycol	Amine Regeneration Unit

### Overhead Corrosion Inhibitor :

Organic film forming chemistry, works effectively across the stripper overhead line in controlling corrosion caused due to presence of corrosive hydrogen sulphide, carbon dioxide, saline water, and dissolved oxygen in.

Range	Active Chemistry	Application
PROTODIN NAC	Neutralizing, Volatile Amines	Overhead lines between pipestill and overhead exchangers, the side stream inlets to the tower

## Secondary Units

### Antifoulant :

High performance downstream antifouling additive, diffuses organic and inorganic matters which are formed during refining, inhibiting their adversities and ensuring optimal throughput.

Range	Active Chemistry	Application
CHEMTEX 4914	Dispersants, Polymerization Inhibitor	Pre-heat exchanger train of distillation units

### Demulsifier :

For use in destabilizing oil- water interface, surrounding each water molecule in emulsion, effective over a wide range of unrefined crude, extracting essential crude residue.

Range	Active Chemistry	Application
CHEMTEX 5062	Phenolic Resins Ethoxylates, Cross Linked Block Polymers	Crude tank dehydration

**Corrosion Inhibitor :**

Optimal corrosion control program for preventing corrosion damage in process equipment, providing a complete solution for corrosion management and refinery asset integrity.

Range	Active Chemistry	Application
CHEMTEX 4187	Organic nitrogenous base derivatives	Petroleum Lines, Fuel Storage Tanks
CHEMTEX 4188		LPG, MTO, Diesel, Petrol, Spirit, HSD

## Finished Fuel Additives

**Pour Point Depressant:**

Modifies wax crystals, limits its growth, inhibits wax consolidation and ensures normal flow of refined oil.

**Lubricity Improver:**

For use in restoring lubricity of fuel that gets removed during refining.

**CFPP Additive:**

Lowers freezing point temperature of the fuel, used during its transportation, in cold weather conditions.

**Dehazer Additive:**

Removes haze / entrained water, improves fuel quality and prevents corrosion in engine tank internals, for use in diesel, gasoline and other heating fuels.

**Dispersant:**

Surfactant based cleaner additive, dosed into fuel, to keep internals of the engine clean during combustion.

**Antistatic Agent:**

Polyamine-Polysulfone blend for use in finished fuel to enhance its conductivity, reducing chances of electrostatic charge formation through uniform dissipation of excess charge.

*These additives also help refiners with their cargo quality for petroleum products stored in Ships, Tankers, Pipelines, Railcars, Iso-tainers and barges, with customized dosage recommendation and taking care of their safety with assistance in providing purest of quality.*



# Utility Chemicals



Cooling Tower



Boiler




Waste Water

## Process Cooling & Heating

### Chiller Water System

#### Heat Transfer Fluids & Corrosion Inhibitors

Range	Active Chemistry	Application
TONO THERM 593	Inhibited Ethylene Glycol	Brass, Copper, Solder, Steel, Cast Iron and Other Metal In Industrial Heating & Cooling
TONO FROST 593 	Inhibited Propylene Glycol	
PROTODIN CN38	Nitrite, Phosphonate, Azole and Polymer	Closed Loop system containing chilled or hot water.
PROTODIN CN28	Molybdate Alkaline Salt	

### Cooling Tower System

#### Scale and Corrosion Inhibitor

Range	Active Chemistry	Application
ALSTACOOOL AS10	Phosphonate and Polymer	Ferrous Metals, Copper, Brass
ALSTACOOOL Z30	Zinc Phosphonate based	Mild Steel

#### Dispersants & Bio-Dispersants

Range	Active Chemistry	Application
ALSTACOOOL BD Series	Non-Ionic Surfactant	Open loop cooling water systems with high concentration of algae, slime, bio-films
ALSTACOOOL DP Series	Polymer based dispersant	

#### Biocides

Range	Active Chemistry	Application
ALSTACIDE CW20	Carbamate Content	Recirculating water
ALSTACIDE CW25	Poly Quats	Evaporative recirculating water
ALSTACIDE CW30	Isothiazolinone based	Cooling Water / Chiller Water
ALSTACIDE CW95	Chlorine based	Cooling Tower Water

## Boiler Water Treatment

### Corrosion Inhibitor & Oxygen Scavenger

Range	Active Chemistry	Application
ALSTHERM C333	Poly - Amines	Steam and Complex Condensation
ALSTHERM DH90	Catalyzed DEHA	Condensate Lines
ALSTHERM S100L	Catalyzed Sodium Bisulphite	Boiler Feed Water (Oxygen Scavenger)

### Antiscalant

Range	Active Chemistry	Application
ALSTHERM M22 Series	Phosphonate based	Coil type, Smoke tube, Water tube boilers
ALSTHERM P (Powder)	Phosphate based	
ALSTHERM MP79	Polyphosphates	

### Descalant

Range	Active Chemistry	Application
CHEMCLEAN 05	Sulfamic Acid Inhibited	Boiler Internals
CHEMCLEAN 06	Alkali and Phosphates	
CHEMCLEAN 07	Alkali, Phosphates and Polymer	

### pH Regulators

Range	Active Chemistry	Application
ALSTHERM 004	pH Booster	Boiler Feed Water
ALSTHERM 005	pH Reducer	
ALSTHERM 006	pH Booster with Softener	

## Waste Water Treatment

### Cationic Polyelectrolyte

Range	Active Chemistry	Application
ALSTAFLOC 150	LMW Polyacrylamide	De-watering of organic sludge from Pharmaceuticals, Bio-technology, Papermaing, Municipal Effluents
ALSTAFLOC 155	MMW Polyacrylamide	
ALSTAFLOC 155X	HMW Polyacrylamide	
ALSTAFLOC 155XX	UHMW Polyacrylamide	
ALSTAFLOC PH47	Cationic Coagulant (Liquid)	
ALSTAFLOC PH49	Cationic Coagulant (Liquid)	

### Anionic Polyelectrolyte

Range	Active Chemistry	Application
ALSTAFLOC 40	MMW Polyacrylamide	Inorganic Sludge, Textile Effluent, Agriculture, Fertilizer, Sugar Processing
ALSTAFLOC 60	HMW Polyacrylamide	
ALSTAFLOC 934	LMW - MMW Polyacrylamide	

## Desalination Plant Treatment

Desalination through reverse osmosis uses an osmotic membrane (semi-permeable membrane) for its ability to allow water to pass through it while blocking other macro or micro contaminants presents. The applied pressure is directly proportional to recovery rate of fresh water i.e., more the pressure above the osmotic pressure, the higher the rate of fresh water.

### Major Issues: Excessive Foaming and Mineral Scale Deposition

#### Antifoam:

FOAMLOC TD series of antifoam based on polyglycol, for use in distillation plant, quickly fuses into the layer of froth formed over the surface fluid, destabilizes them by rupturing their film-wall strength, and is well stable under varied temperature, pressure and feed water ingredients.

#### Antiscalant:

ALSTHERM TD series of antiscalants works on the principle of crystal distortion, preventing re-crystallization right at nano-particle stage and effectively controls rate of deposition of carbonates, sulphates, silicates of Calcium, Strontium, Magnesium in heat exchanger of a Multi Effect Distillation (MED) / Multi Stage Flash (MSF) thermal water desalination system.

## Acid Cleaning

Acid Inhibitor additives, when dosed along with concentrated pickling acid, during acid cleaning or 'pickling' process, not only removes surface contaminants but also effectively inhibits oxidation induced corrosion of metals. The range is well compatible with Iron, Copper, Tin, Nickel, Aluminium, Zinc and even Galvanized surfaces.

Product	Pickling Acid Inhibition
PROTODIN 213 SPL	Hydrochloric Acid (All Conc.)
PROTODIN 85	Sulphuric Acid
PROTODIN 31A	Phosphoric, Sulphuric, Hydroxyactic (Glycolic), Sulfamic.
PROTODIN 92B	Citric Acid, EDTA
PROTODIN 103	Mineral and Organic Acid

# Performance Chemicals



Polymer Processing



Organic Reactions

## Organic Additives

Range	GRADE / CAS NO.	Application
EDTA 4Na (Tetrasodium)	CAS No. 64-02-8	<ul style="list-style-type: none"> <li>• Oil and Gas</li> <li>• Metal Cleaning and Passivation</li> <li>• Membrane Cleaning</li> <li>• Detergents</li> <li>• Textile Auxiliaries</li> </ul>
EDTA 3Na (Trisodium)	CAS No. 150-38-9	
EDTA 2Na (Disodium)	CAS No. 139-33-3	
EDTA Pure Acid	CAS NO. 60-00-4	
Citric Acid Anhydrous	CAS No. CAS No. 77-92-9	<ul style="list-style-type: none"> <li>• Metal Treatment</li> </ul>
Citric Acid Monohydrate	CAS No. CAS No. 5949-29-1	<ul style="list-style-type: none"> <li>• Acid Cleaning</li> </ul>
HEDP Acid & Salts	CAS No. 2809-21-4	<ul style="list-style-type: none"> <li>• Metal Ions Sequestration</li> <li>• Peroxide Stabilizer</li> </ul>
ATMP Acid & Salts	CAS No. 6419-19-8	<ul style="list-style-type: none"> <li>• Corrosion Inhibition</li> <li>• Scale Inhibition</li> </ul>

## Silicones

Range	GRADE / CAS NO.	Application
Silicone Oil (PDMS);	Polydimethylsiloxane CAS No. 9016-00-6 Available in viscosities of 100-60000, cSt)	Textile Auxiliaries, Antifoaming Agents, Water-Proofing Agents, Cosmetics & Pharma, Metallic Treatment, Silicone Grease, Mold Release

## Imidazolines

Range	GRADE / CAS NO.	Application
Hydroxy Ethyl Imidazoline	CAS No. 68937-01-9	Metal treatment, Oil/Water Soluble Salts
Amino Ethyl Imidazoline	CAS No. 68526-44-3	Corrosion inhibitors, Dispersants.
Amido Ethyl Imidazoline	CAS No. 63441-26-9	Textile Processing, Acid Detergents.

### Polyacrylates and Polymers

Range	GRADE / CAS NO.	Application
Polyacrylate Polymer (Homo / Co / Ter)	LMW / MMW / HMW Acrylates	Ca/Mg/Ba Salts (Carbonates, Sulphates) Dispersant and Scale Inhibitor in Industrial Water Treatment
Polymaleic Acid	CAS No. 26099-09-2	Scale Inhibitor, Cooling Water Treatment, Sea Water Evaporators, Textile Dyeing, Oilfield Injection, Sugar Evaporators
Poly Epoxy Succinic Acid (PESA)	CAS No. 51274-37-4	Antifoulant, Antiscalant, Dispersant in Industrial Process Cooling and Heating System, Water Treatment

### Quats & Aldehydes

Range	GRADE / CAS NO.	Application
Benzalkonium Chloride	CAS No. 8001-54-5 (35,50,80 % wt).	Open Plant Cleaning, General Disinfection, Metal Cleaning & Disinfection, Waste Water Treatment
Didecyl Dimethyl Ammonium Chloride (DDAC)	CAS No. 7173-51-5 (50,80 % wt).	Surface Disinfection, Water Disinfection
Glutaraldehyde	CAS No. 111-30-8 (50 % wt).	As Biocide in Water Treatment, Petroleum Industries, Leather Treatment, Plastics and Fibre Processing, Paints and Coatings

### Other Treatment Additives

Range	GRADE / CAS NO.	Application
Sulfamic Acid	CAS No. 5329-14-6	Cleaning, Acid Pickling, Descaling Metals
Morpholine	CAS No. 110-91-8	Steam Boiler Corrosion Inhibitor
Carbohydrazide`	CAS No. 497-18-7	Corrosion Inhibitor, Oxygen Scavenger
Hydrazine Hydrate	CAS No. 7803-57-8	Oxygen Scavenger in Steam Boiler
Diethyl Hydroxylamine (DEHA)	CAS No. 3710-84-7	Oxygen Scavenger, Metal Passivation



# SUSTAINABILITY PRACTICES

Adopting and implementing regulations regarding safe eco-diversity and green chemistry, improving sustainability profile through continuous R&D, innovating and incorporating bio-technology, artificial intelligence is a part of new business approach in contributing to an indelible value, by taking into consideration, how the business operates in the ecological, social, and economic environments. With rise in expectation and prevalent transparency, organization are putting up their action right on sustainability.

Chemtex believes in promoting sustainable business practices, exclusively focusing on three sustainability initiatives; Ecology, Economy and Evolve. Prioritizing on decarbonizing energy source, pollution control and working on GHG reduction opportunities, makes our commitment, firmer towards clean environment. With three Es always at helm, our experts in chemical science, environmental and polymer science, data science, and engineering regularly supports the research, development, and assessment of breakthrough technologies. Chemtex, as an organization, thrives to pilot all operations in response to climate change and expectations of stakeholders, helping in the transition to sustainable practices by mitigating risk and devising customized solutions

# chemtex

Chemtex is chosen for its integrity and observance for high quality standards with commitment towards client value. Serving over 24000 clients globally since 1970, Chemtex follows Good Manufacturing Practices (GMP) under the state of art facility in compliance with International Organization for Standardization (ISO), Environment Management System (EMS) and Occupational Health and Safety Management System.

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