



Chemicals for

- Cooling Tower Water Treatment
- Boiler Water Treatment
- Textile Auxilliary
- Sugar Industries
- Leather
- Reverse Osmosis (RO)
- Radiator Coolants
- Rust Removers
- General Chemicals

Enabling process industries to improve efficiency of boilers & cooling towers and enhance operational profitability.

About Sicagen Group

Sicagen is a USD 100 million plus company with presence across India and South East Asia. The various business divisions of Sicagen, through their solutions and service offerings, enable infrastructure and allied industries to improve business performance.

Sicagen offers quality products and efficient services through its six manufacturing plants, over 50 offices and a committed team of 400 plus employees. Sicagen is well-known for its customer-centric approach, technologically superior yet cost-efficient solutions, reliability of offerings and greater transparency in business operations. With a high level of customer trust,

Speciality Chemicals Division

Sicagen Speciality Chemicals Division is a leading manufacturer of water treatment chemicals. We enable process industries to improve efficiency of boilers and cooling towers, enhance operational profitability, extend asset life, improve end product quality and enhance air quality.

Through our range of chemicals, we offer significant techno-economical benefits and advantages for effective water management and environmental protection. Our chemical treatment programmes and services are extensively used in water treatment applications to prevent corrosion, fouling, deposits and microbial growth.

At Sicagen, we help our customer to reduce consumption of energy, water and other natural resources while minimising adverse impact on environment.

Our extensive experience and competency in the field allows us to offer value added quality products and services which are unique and reliable. Being a

Business process



Who can benefit from our range of chemicals



Cooling Tower Water Treatment Chemicals

Khlorox - Chlorine Dioxide

Khlorox is a versatile generator which produces Chlorine Dioxide – a powerful biocide and a strong oxidising agent. **Khlorox** is an ingenious development by our researchers. It possess an unique characteristic of converting itself in to chlorine dioxide with or without presence of chlorine gas. **Khlorox** is equipped with a pH controller and ORP meter, that control the dosing of **Khlorox-786** catalyst. This achieves effective and efficient dosing for the



Oxidizing Biocides

- Chlorine & its various forms
- Bromine
- Chlorine dioxide
- Ozone
- Hydrogen peroxide
- Halogen donors
- Halogen releasing compounds

Non-oxidising Biocides

- MBT-based
- Quat-based
- Amine-based

- DBNPA-based
- Bronopol-based
- Dichlorophene
- Gluteraldehyde
- Isothiazoline
- Carbamate

Biodispersants

- Adduct of Ethylene and Propylene Oxides
- Adduct of Amines and Fatty Acides

Corrosion Inhibitors

- Molybdates, Nitrites & Silicate based
- Poly & Organophosphonate based
- Organophosphonate based
- Zinc & Organophosphonate based
- Zinc, Organophosphonate & Orthophosphate based
- Zinc, Meta/Pyrophosphate based
- Zinc, Meta/Pyrophosphate &

- Organophosphonate based
- Meta/Pyrophosphate based
- Zinc based

Antiscalents

- Low molecular weight polymeric
- Organophosphonate based
- Phosphonate & polymeric

Dispersants

- Low molecular weight Homopolymer
- Low molecular weight Copolymer

Boiler Water Treatment Chemicals

- pH Booster
- Oxygen scavenger
- Sludge conditioner
- Corrosion inhibitor / Anti-scalents
- Anti-Flocculants

Sugar Chemicals

- Anti-scalents
- Mill sanitation chemicals
- Flocculants
- Viscosity reducer
- Defoamer
- TRO – 35% , 50%, 70% (TFM)
- Descalents

RO Chemicals

- Antiscalents
- Cleaners
- Antifoulants

Textile Chemicals

- Sizing agent
40%, 25%, 8% Concentration
- Wetting agent

- Co-Polymer based
- Wetting/Scouring agent
- Acrylic Polymer

Leather Chemicals

Leather Preservative

- Quat based
- Carbamate based
- MBT / TCMTB based
- TCMTB based
- MBT based
- Isothiazolinone based

Retaining Agent

- Polyacrylate based compound
- Co-Polymer syntans
- Amps based syntans
- Binders

Oilfields Chemicals

- Aldehyde based bactericide
- Amine based bactericide
- Non-amine non-aldehyde based bactericide
- Amine based corrosion inhibitor
- Water injection corrosion inhibitor
- Water injection defoamer

General Chemicals

- Radiator coolant and protector
- Water-based polymeric compound Rust Remover
- Horticulture Biocide
- Preservative for Metal Working Fluids

Water Treatment Chemicals

Organophosphine Antiscale and Corrosion Inhibitors, chelants

- Amino Trimethylene Phosphonic Acid (ATMP)
- 1-Hydroxy Ethylidene-1, 1- Diphosphonic Acid (HEDP 60%)
- Diethylene Triamine Penta Methylene Phosphonic Acid (DTPMPA)
- 2-Phosphonobutane -1, 2, 4-Tricarboxylic Acid (PBTCA)
- 2-Hydroxyphosphonocarboxylic Acid (HPAA)
- HexaMethyleneDiamine Tetra Methylene Phosphonic Acid (HMDTMPA)

Bactericide and Algicide (Biocides)

- Isothiazolinones (CMI / MIT 14%)
- 2,2-Dibromo-3-Nitropropion Amide (DBNPA)
- 2-Bromo-2-nitro-1,3-propanediol

- (Bronopol)
- Methylene Bis Thiocyanate (MBT / MCT)

Corrosion Inhibitor

- 1, 2, 3-Benzotriazole Needles (BTA)
- 2-Mercaptobenzothiazole (MBT)
- Tolyltriazole (TTA)

Other Water Treatment Chemicals

Power Plant Chemicals

- Power Plant Chemicals
- Acrylic Acid -2-Hydroxypropyl Acrylate Copolymer (AA/HPA)
- 1-Hydroxy Ethylidene-1, 1-Diphosphonic Acid (HEDP)
- Hydrolyzed Polymaleic Anhydride (HPMA)
- Polyacrylic Acid Sodium (PAAS)
- Sodium Metabisulfite (SMBS)
- 2-Acrylamido-2-Methylpropanesulfonic Acid-Acrylic Acid Copolymer (AA/AMPS)
- Carbohydrazide
- Hydrazine Hydrate (HH)
- Polyacrylic Acid (PAA)
- 2-Phosphonobutane -1, 2, 4-Tricarboxylic Acid (PBTCA)
- Trisodium Phosphate (TSP)



RO Antifoulant

Product selection for effective control of bacterial growth and slime

Product	Slimes	Bio-colloids	Aggressive Microbes	Foulants
Biomac - DBM-20	●	●	●	●
Biomac - ISO	●	●	●	●
Biomac - MBT	●	●	●	●
Biomac - 5020	●	●	●	●
Biomac - 7020	●	●	●	●

● Best selection ● Good impact ● Minimum impact

Product Benefits

- Instantaneous antimicrobial activity as non-oxidising slimicide/Bactericide
- Kills Bacteria, Fungi & Algae
- Exclusively for use in non-potable applications
- Compatible with thin film (Polyimide) and cellulose acetate membranes
- Degrades rapidly and naturally to comply with strict environmental discharge regulations

RO Antiscalants

Product selection for effective control of scales

Product	SiO ₂	CaCO ₃	Ba/St SO ₄	CaF	CaSO ₄	Fe/AL
CC- 123	●	●	●	●	●	●
CC - 456	●	●	●	●	●	●
CC - 789	●	●	●	●	●	●
CC - 999	●	●	●	●	●	●

Product benefits

- Highly effective anti-scalant across a broad spectrum of waters
- Minimises scaling and reduces the frequency of membrane cleaning
- Will usually replace the need for acid addition
- Low dose rate gives a highly cost-effective solution to scale control
- Compatible with all membrane types
- Effective iron and manganese sequesterant

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Businesses we are in -



Building Materials



Power & Control Systems



Speciality Chemicals



Industrial Packaging



Boat Building



Precision Fabrication



Power Cables



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