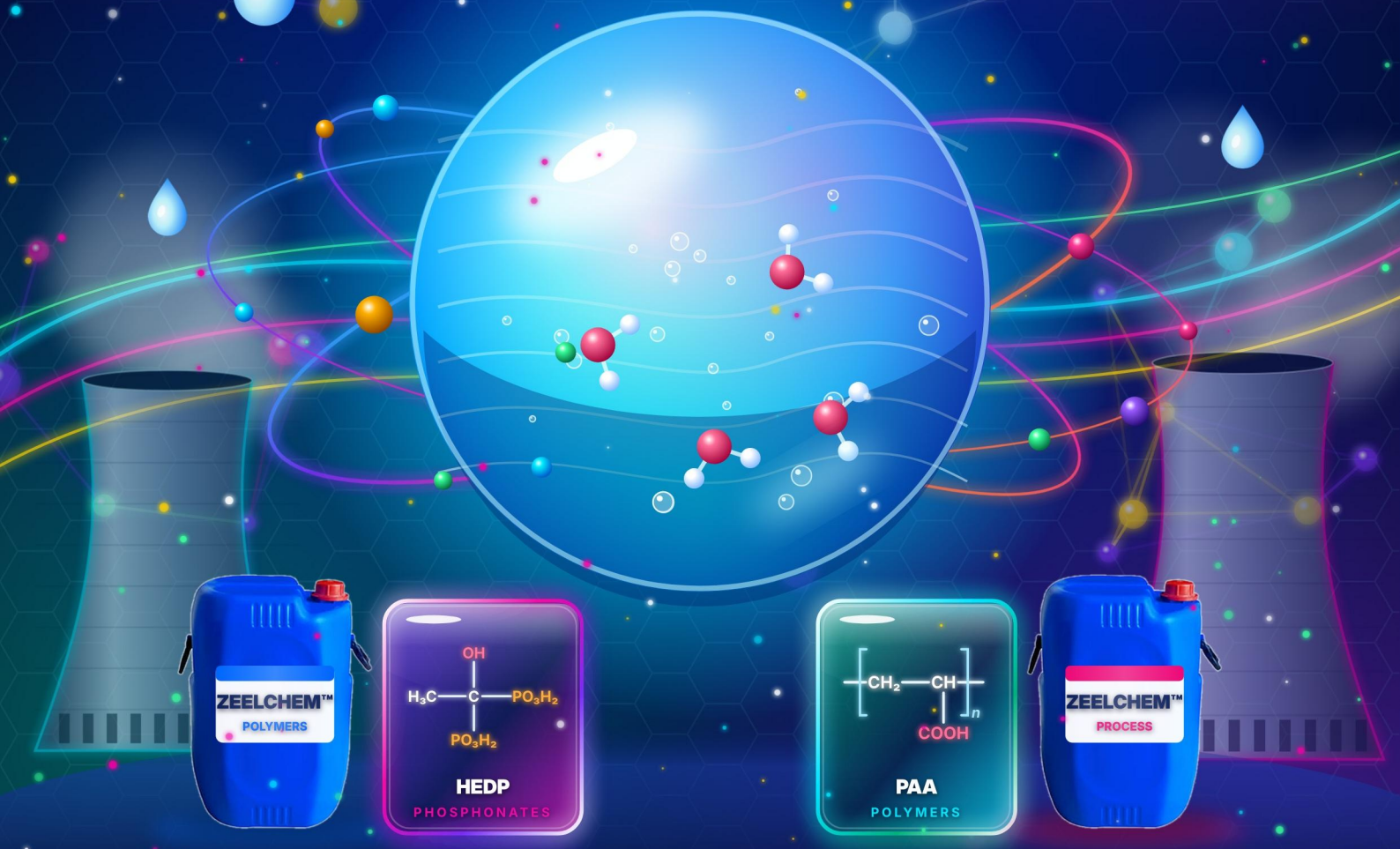
INTERNATIONAL PRODUCT CATALOGUE

EDITION 2026

ZEEL PRODUCT®

ADVANCED WATER TREATMENT CHEMICAL SOLUTIONS

POWERED BY ZEELCHEM™



ENGINEERING WATER. ENHANCING PERFORMANCE.

ISO 9001:2015 CERTIFIED

ISO 22000:2018 CERTIFIED

ISO 14001:2015 CERTIFIED

ABOUT ZEEL PRODUCT

Chemistry that keeps industry flowing.

ZEEL PRODUCT manufactures and supplies water treatment chemicals under the **ZEELCHEM™** brand — polymers, phosphonates, biocides, process chemicals, wastewater and swimming pool chemicals, alongside selected imported speciality chemicals. Our portfolio supports boilers, cooling towers, reverse osmosis plants and effluent treatment across industry.



7	27	41	3
PRODUCT CATEGORIES	LISTED PRODUCTS	APPLICATION RANGES	ISO CERTIFICATIONS

Manufacturing

In-house production of ZEELCHEM™ water treatment chemicals under certified management systems.

Quality Control

Batch testing and documentation, with a Certificate of Analysis available for supplied lots.

Technical Support

Application guidance for boiler, cooling, RO and effluent systems from our technical team.

Documentation

Technical Data Sheets (TDS), Safety Data Sheets (SDS) and COA on request.

ISO 9001:2015 Certified
QUALITY MANAGEMENT

ISO 22000:2018 Certified
FOOD SAFETY MANAGEMENT

ISO 14001:2015 Certified
ENVIRONMENTAL MANAGEMENT

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INDUSTRIES SERVED

Solutions across every water system.






Industrial Boilers
Scale, corrosion & oxygen control

Cooling Towers
Scale, corrosion & biofouling

RO Membrane Systems
Antiscalants & membrane care

Wastewater Plants
Flocculation & foam control

Textile Processing
Dispersants, defoamers, chelants

Pharmaceutical
Utility water & boiler care

Chemical Manufacturing
Process & utility treatment

Food Processing
Boiler & cooling programmes

Power Plants
High-pressure boiler & cooling

Swimming Pools
Sanitation & algae control

Heat Exchangers
Deposit & corrosion control

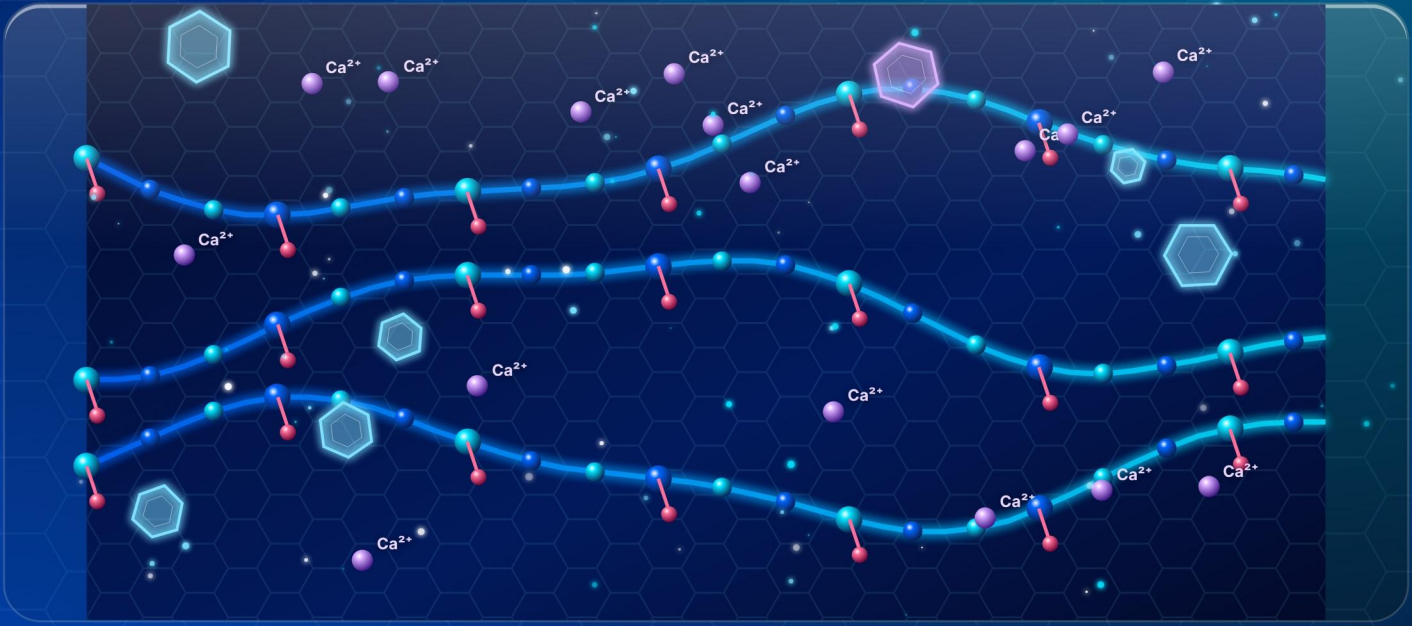
Your industry not listed?
Talk to our technical team for a tailored programme.

01

CATEGORY 01

WATER TREATMENT POLYMERS

Synthetic, phosphorus-free and low-phosphorus polyelectrolytes that inhibit mineral scale and keep suspended solids dispersed. ZEELCHEM™ polymers are the building blocks of modern cooling, boiler and membrane treatment programmes.



Polyacrylic Acid	ZEELCHEM™ 1000
Polymaleic acid	ZEELCHEM™ 200
Co Polymer of MA/AA	ZEELCHEM™ 3000
Co Polymer of AA/AMPS	ZEELCHEM™ 3100
Terpolymer	ZEELCHEM™ 7000
Sodium Polyacrylate Liquid	ZEELCHEM™ 1000.Z7

STEP 01

Threshold inhibition

Polymer anions adsorb onto growing crystal nuclei and slow their growth.

STEP 02

Crystal modification

Distorted, weak crystals fail to form hard, adherent scale.

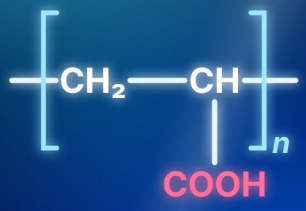
STEP 03

Dispersion

Charged chains keep particles suspended so they leave with blowdown.

01 WATER TREATMENT POLYMERS

PRODUCT CODE
ZEELCHEM™ 1000



Repeat unit: –[CH_2–CH(COOH)]$_n$–

01 · WATER TREATMENT POLYMERS

Polyacrylic Acid ZEELCHEM™ 1000

Polycarboxylate homopolymer

Homopolymer of acrylic acid used as a scale inhibitor and dispersant. It interferes with the growth of calcium carbonate and related mineral scales and keeps suspended solids dispersed in recirculating water.

MAIN APPLICATIONS
- Cooling water treatment
- Boiler internal treatment
- Antiscalant formulations
- Dispersant in process water

FEATURES & BENEFITS
- Phosphorus-free chemistry
- Good scale inhibition and dispersion
- Compatible with phosphonate blends
- Easy liquid dosing

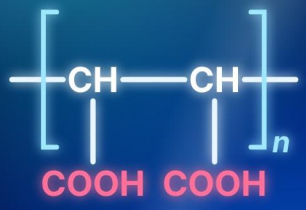
INDUSTRIES
Power | Textile | Chemical | Sugar | Refinery

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT CODE
ZEELCHEM™ 200



Repeat unit: –[CH(COOH)–CH(COOH)]$_n$–

01 · WATER TREATMENT POLYMERS

Polymaleic acid ZEELCHEM™ 200

Polycarboxylate (HPMA type)

Polymer of maleic acid carrying two carboxyl groups per repeat unit. Valued for scale control in high-temperature and high-alkalinity water, where it holds calcium carbonate in solution.

MAIN APPLICATIONS
- Boilers and steam systems
- High-alkalinity cooling water
- Evaporators and desalination
- Formulated antiscalants

FEATURES & BENEFITS
- High thermal stability
- Works under high alkalinity
- Phosphorus-free
- Blends well with phosphonates

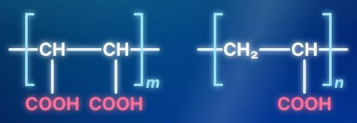
INDUSTRIES
Power | Desalination | Sugar | Fertilizer | Steel

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT CODE
ZEELCHEM™ 3000



Maleic acid (m) + acrylic acid (n) units

01 · WATER TREATMENT POLYMERS

Co Polymer of MA/AA ZEELCHEM™ 3000

Maleic / acrylic copolymer

Copolymer of maleic acid and acrylic acid combining the dispersancy of polyacrylate with the high carboxyl density of polymaleate. Used to inhibit carbonate scale and disperse deposits.

MAIN APPLICATIONS
- Cooling tower programmes
- Boiler water treatment
- Detergent and cleaning builders
- Industrial process water

FEATURES & BENEFITS
- Dual scale inhibition and dispersion
- Calcium tolerance
- Phosphorus-free
- Liquid, easy to formulate

INDUSTRIES
Power | Chemical | Detergent | Textile | HVAC

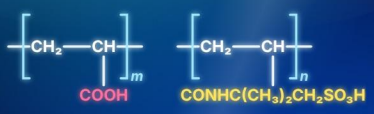
Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

01 WATER TREATMENT POLYMERS

PRODUCT CODE
ZEELCHEM™ 3100



Acrylic acid (m) + AMPS (n) units

01 · WATER TREATMENT POLYMERS

Co Polymer of AA/AMPS ZEELCHEM™ 3100

Sulfonated acrylic copolymer

Copolymer of acrylic acid and 2-acrylamido-2-methylpropane sulfonic acid (AMPS). The sulfonate group gives strong dispersion and stabilisation of calcium phosphate, iron and zinc in demanding water.

MAIN APPLICATIONS
- Phosphate-based cooling programmes
- Iron and zinc stabilisation
- RO antiscalant formulations
- High-hardness water

FEATURES & BENEFITS
- Excellent phosphate dispersion
- Hardness tolerant
- Stabilises iron and zinc
- Synergy with phosphonates

INDUSTRIES
Power | Refinery | Petrochemical | Steel | Fertilizer

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT CODE
ZEELCHEM™ 7000



Illustrative graphic — not a molecular structure

Monomer composition: refer TDS

01 · WATER TREATMENT POLYMERS

Terpolymer ZEELCHEM™ 7000

Multifunctional terpolymer

Three-monomer polymer designed for multi-purpose scale inhibition and dispersion in complex waters, controlling calcium phosphate, metal oxides and suspended silt in one product.

MAIN APPLICATIONS
- Cooling water treatment
- Complex / high-cycle waters
- Scale and corrosion programmes
- Formulated blends

FEATURES & BENEFITS
- Multi-functional performance
- Disperses oxides and silt
- Calcium phosphate control
- Programme simplification

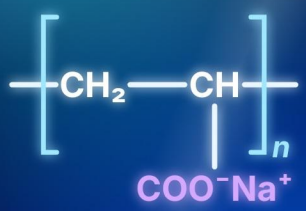
INDUSTRIES
Power | Steel | Refinery | Chemical | HVAC

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT CODE
ZEELCHEM™ 1000.Z7



Repeat unit: –[CH_2–CH(COO^-Na^+)]$_n$–

01 · WATER TREATMENT POLYMERS

Sodium Polyacrylate Liquid ZEELCHEM™ 1000.Z7

Neutralised polyacrylate salt

Sodium salt of polyacrylic acid supplied as a liquid. A versatile dispersant for scale control and for keeping mineral and pigment particles evenly suspended.

MAIN APPLICATIONS
- Scale dispersant in water systems
- Mineral / pigment dispersion
- Detergents and cleaners
- Textile and paper processing

FEATURES & BENEFITS
- Neutralised, user-friendly form
- Strong dispersing action
- Phosphorus-free
- Wide formulation compatibility

INDUSTRIES
Textile | Paper | Ceramics | Detergent | Paints

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

02

CATEGORY 02

WATER TREATMENT PHOSPHONATES

Organophosphonates are powerful sequestering and threshold scale-inhibiting agents. Stable under heat and hydrolysis, ZEELCHEM™ phosphonates protect cooling, boiler and process systems from mineral scale and corrosion.



HEDP 60	ZEELCHEM™ 101
ATMP 50	ZEELCHEM™ 111
PBTC 50	ZEELCHEM™ 121
DTPMP	ZEELCHEM™ 131
PAPEMPA	ZEELCHEM™ 151

STEP 01

Chelation

Phosphonic acid groups bind Ca^{2+}, Mg^{2+} and Fe ions into soluble complexes.

STEP 02

Threshold effect

Sub-stoichiometric levels delay crystal nucleation.

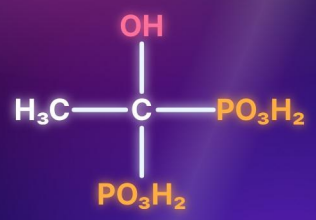
STEP 03

Surface protection

Adsorbed films help reduce corrosion of metal surfaces.

02 WATER TREATMENT PHOSPHONATES

PRODUCT CODE
ZEELCHEM™ 101



HEDP · $C_2H_8O_7P_2$

02 · WATER TREATMENT PHOSPHONATES

HEDP 60 ZEELCHEM™ 101

1-Hydroxyethylidene-1,1-diphosphonic acid

Organophosphonic acid widely used as a scale and corrosion inhibitor and as a chelating agent for calcium, magnesium and iron. Stable at elevated temperatures.

— MAIN APPLICATIONS
- Cooling water scale & corrosion control
- Boiler and process water
- Peroxide bleach stabilisation
- Detergent and cleaning formulations

— FEATURES & BENEFITS
- Strong chelating ability
- Thermally stable
- Works with polymers and zinc
- Corrosion inhibition support

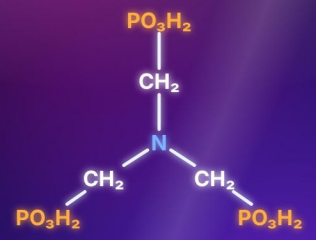
— INDUSTRIES
Power | Textile | Oil & gas | Chemical | Detergent

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT CODE
ZEELCHEM™ 111



ATMP · $C_3H_{12}NO_9P_3$

02 · WATER TREATMENT PHOSPHONATES

ATMP 50 ZEELCHEM™ 111

Amino tris(methylene phosphonic acid)

Aminophosphonate offering excellent threshold inhibition of calcium carbonate scale and good chelation. A cost-effective workhorse for recirculating cooling water.

— MAIN APPLICATIONS
- Recirculating cooling water
- Boiler water treatment
- Oilfield water injection
- Textile and paper processing

— FEATURES & BENEFITS
- Excellent $CaCO_3$ threshold inhibition
- Good chelation
- Hydrolytically stable
- Cost-effective

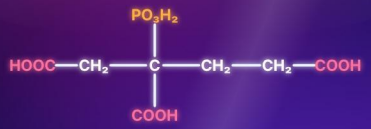
— INDUSTRIES
Power | Oil & gas | Textile | Paper | Steel

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT CODE
ZEELCHEM™ 121



PBTC · $C_7H_{11}O_9P$

02 · WATER TREATMENT PHOSPHONATES

PBTC 50 ZEELCHEM™ 121

2-Phosphonobutane-1,2,4-tricarboxylic acid

Phosphonocarboxylic acid with low phosphorus content and outstanding tolerance to oxidising biocides such as chlorine. Effective in high-temperature, high-hardness and high-pH water.

— MAIN APPLICATIONS
- High-hardness cooling water
- Programmes using chlorine biocides
- High-pH, high-temperature systems
- Formulated antiscalants

— FEATURES & BENEFITS
- Chlorine / oxidant tolerant
- Low phosphorus content
- High-pH performance
- Zinc stabilisation

— INDUSTRIES
Power | Steel | Refinery | Chemical | HVAC

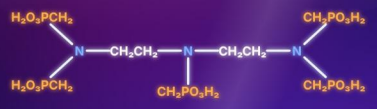
Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

02 WATER TREATMENT PHOSPHONATES

PRODUCT CODE
ZEELCHEM™ 131



DTPMP · $C_9H_{28}N_3O_{15}P_5$

02 · WATER TREATMENT PHOSPHONATES

DTPMP ZEELCHEM™ 131

Diethylenetriamine penta(methylene phosphonic acid)

Penta-phosphonate with five phosphonic acid groups, giving strong inhibition of carbonate and sulfate scales including barium sulfate, plus effective metal-ion sequestration.

MAIN APPLICATIONS
- Sulfate and carbonate scale control
- Oilfield and injection water
- Peroxide stabilisation in bleaching
- Cooling and boiler water

FEATURES & BENEFITS
- Barium / strontium sulfate control
- Strong sequestration
- Alkaline stability
- Versatile across industries

INDUSTRIES
Oil & gas | Pulp & paper | Textile | Power | Chemical

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT CODE
ZEELCHEM™ 151



Illustrative graphic — not a molecular structure

Polymeric phosphonate — structure varies by chain length

02 · WATER TREATMENT PHOSPHONATES

PAPEMPA ZEELCHEM™ 151

Polyamino polyether methylene phosphonic acid

Polymeric phosphonate with high scale-inhibition capability in difficult waters with high hardness, high alkalinity and high turbidity, suited to systems run at high cycles of concentration.

MAIN APPLICATIONS
- High-cycle cooling systems
- Low-quality make-up water
- Carbonate and sulfate scale control
- Oilfield water

FEATURES & BENEFITS
- Performs in high-hardness water
- High-pH tolerance
- Supports water conservation
- Polymeric phosphonate efficiency

INDUSTRIES
Power | Steel | Oil & gas | Refinery | Chemical

Specifications · Appearance · Packaging: refer TDS (TBC)

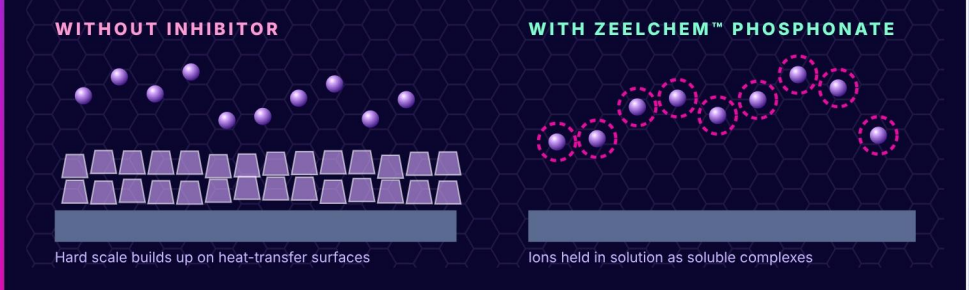
TDS · SDS · COA on request

Enquire now →

HOW IT WORKS

Why phosphonates?

Phosphonates sequester hardness and metal ions and act at sub-stoichiometric (threshold) levels, delaying crystal growth so scale does not form on heat-transfer surfaces. They are commonly combined with polymers for complete scale and deposit control.



03

CATEGORY 03

WATER TREATMENT BIOCIDES

Microbial growth causes slime, biofilm, under-deposit corrosion and loss of heat transfer. ZEELCHEM™ non-oxidising biocides provide broad-spectrum control of bacteria, fungi and algae in industrial water systems.



- **CIT MIT 14%**
- **CIT MIT 1.4%**
- **Glutaraldehyde**

STEP 01

Penetration

Active molecules diffuse through cell walls and slime layers.

STEP 02

Disruption

Key enzymes and cell functions are inhibited, stopping growth.

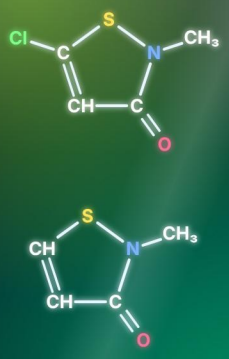
STEP 03

Biofilm control

Regular dosing keeps surfaces clean and heat transfer efficient.

03 WATER TREATMENT BIOCIDES

PRODUCT
CIT MIT 14%



CMIT (C_4H_4ClNOS) + MIT (C_4H_5NOS)

03 · WATER TREATMENT BIOCIDES

CIT MIT 14%

Isothiazolinone biocide (CMIT/MIT) — concentrate

Concentrated blend of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one. A broad-spectrum non-oxidising biocide, also used as a base for dilute preservative grades.

MAIN APPLICATIONS
- Cooling tower biocide programmes
- Paper mill slime control
- Base for dilute biocide grades
- Industrial process water

FEATURES & BENEFITS
- Broad-spectrum activity
- Effective against bacteria, fungi, algae
- Concentrated, economical
- Compatible with most programmes

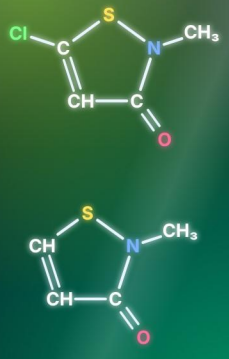
INDUSTRIES
Power | Paper | Chemical | Paints | HVAC

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
CIT MIT 1.4%



CMIT (C_4H_4ClNOS) + MIT (C_4H_5NOS)

03 · WATER TREATMENT BIOCIDES

CIT MIT 1.4%

Isothiazolinone biocide (CMIT/MIT) — dilute grade

Ready-to-use dilute CMIT/MIT grade for convenient dosing in water systems and for preservation of water-based products as per application guidelines.

MAIN APPLICATIONS
- Cooling and chilled water
- Air washers and humidifiers
- Preservation of water-based products
- Process water systems

FEATURES & BENEFITS
- Ready-to-dose strength
- Broad-spectrum control
- Easy handling and dilution
- Effective at low use levels

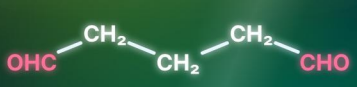
INDUSTRIES
HVAC | Textile | Paints | Detergent | Chemical

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
Glutaraldehyde



Pentanedial · $C_5H_8O_2$

03 · WATER TREATMENT BIOCIDES

Glutaraldehyde

Dialdehyde biocide

Fast-acting aldehyde biocide effective against bacteria including sulfate-reducing bacteria, and against biofilm. Widely used for microbiological control and disinfection.

MAIN APPLICATIONS
- Cooling water biofilm control
- Oilfield and injection water
- Industrial disinfection
- Pipeline and system flushing

FEATURES & BENEFITS
- Fast, broad-spectrum kill
- Active against SRB and biofilm
- Non-oxidising
- Compatible with many inhibitors

INDUSTRIES
Oil & gas | Power | Paper | Healthcare | Chemical

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

04

CATEGORY 04

PROCESS CHEMICALS

Complete, system-specific treatment ranges for boilers, cooling water and reverse osmosis plants — from inhibitors and dispersants to biocides, cleaners and membrane-care chemistry.



10 PRODUCT RANGES

Boiler Water Treatment Chemicals

ALL RELATED PRODUCTS

Scale, corrosion, oxygen and sludge control for steam generation systems.

See page 14 →

15 PRODUCT RANGES

Cooling Water Treatment Chemicals

ALL RELATED PRODUCTS

Scale, corrosion, microbiological and fouling control for cooling towers and chillers.

See page 15 →

16 PRODUCT RANGES

Reverse Osmosis Chemicals

ALL RELATED PRODUCTS

Antiscalants, cleaners, biocides and pretreatment chemistry for membrane plants.

See page 16 →

STEP 01

Assess

Water analysis and system audit by our technical team.

STEP 02

Treat

Programme built from the ZEELCHEM™ process range.

STEP 03

Monitor

Ongoing testing and dosage optimisation.



APPLICATION A · PROCESS CHEMICALS

BOILER WATER TREATMENT

Complete internal treatment for steam generation — scale, corrosion, oxygen, sludge and carry-over control, plus shutdown cleaning.

PRODUCT RANGE	MAIN CHEMICAL TYPE	PURPOSE	TYPICAL INDUSTRIES
01 **Boiler Scale Inhibitor**	Phosphonate + polymer	Prevent $CaCO_3$, $CaSO_4$ and silica deposits	Textile, pharma, food, chemical
02 **Boiler Dispersant**	Polyacrylate / copolymer	Keep sludge and deposits dispersed	Textile, paper, sugar
03 **Oxygen Scavenger**	Sodium sulfite / catalyzed sulfite / DEHA etc.	Reduce dissolved oxygen and corrosion	Power, process industries
04 **Boiler Corrosion Inhibitor**	Specialty inhibitor	Protect boiler/feedwater system	General industry
05 **Phosphate Boiler Treatment**	Sodium phosphate blend	Internal boiler water treatment	Low/medium pressure boilers
06 **Boiler pH/Alkalinity Builder**	Alkaline formulation	Maintain appropriate boiler-water chemistry	Industrial boilers
07 **Condensate Corrosion Inhibitor**	Neutralizing/filming amine	Protect steam/condensate lines	Process & power plants
08 **Sludge Conditioner**	Polymer/dispersant	Prevent hard sludge deposition	Boilers with high hardness
09 **Boiler Defoamer**	Silicone/non-silicone	Control carryover/foaming	Food, textile, chemical
10 **Boiler Cleaning Chemical**	Acid/alkaline formulated cleaner	Remove scale and deposits during shutdown	Maintenance

Product selection, dosage and specifications are system-specific — refer TDS or consult our technical team.

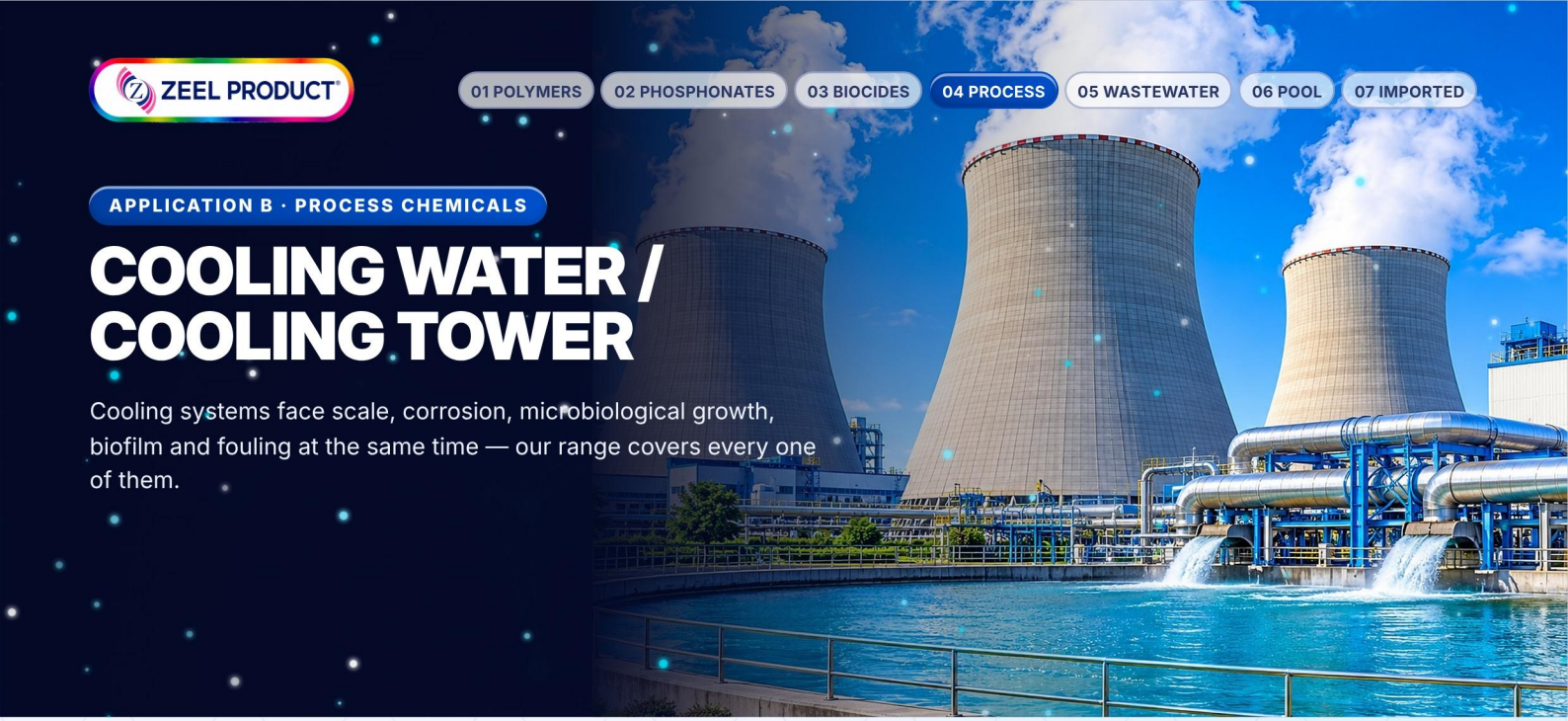
TDS · SDS · COA on request

Scale control
Scale inhibitors, dispersants and phosphate treatment.

Oxygen & corrosion
Oxygen scavengers, corrosion and condensate inhibitors.

Sludge & carry-over
Sludge conditioners and boiler defoamers.

Shutdown cleaning
Formulated acid / alkaline boiler cleaners.



APPLICATION B · PROCESS CHEMICALS

COOLING WATER / COOLING TOWER

Cooling systems face scale, corrosion, microbiological growth, biofilm and fouling at the same time — our range covers every one of them.

PRODUCT RANGE	MAIN CHEMICAL TYPE	CONTROLS	APPLICATION
01 **Cooling Scale Inhibitor**	HEDP / DTPMP / polymer	Calcium & mineral scale	Cooling towers
02 **Scale + Corrosion Inhibitor**	Phosphonate + polymer + inhibitor	Scale + corrosion	Open cooling systems
03 **Polymer Dispersant**	PAA / AA-AMPS / HPMA etc.	Suspended deposits	Cooling towers
04 **Corrosion Inhibitor – Mild Steel**	Phosphonate/azole/polymer formulation	Steel corrosion	Cooling systems
05 **Copper/Brass Corrosion Inhibitor**	BTA/TTA type chemistry	Copper corrosion	Chillers/HX
06 **Oxidizing Biocide**	Chlorine/bromine-based chemistry	Algae/bacteria	Cooling towers
07 **Non-Oxidizing Biocide**	CMIT/MIT, DBNPA, glutaraldehyde etc.	Bacteria/fungi/slime	Cooling systems
08 **Algae Control Chemical**	Algaecide	Algae	Cooling towers
09 **Bio-dispersant**	Specialty polymer/surfactant	Biofilm/slime	Cooling towers
10 **Oil Dispersant**	Specialty dispersant	Oil contamination	Refineries/petrochemical
11 **Silica Control Chemical**	Specialty polymer	Silica deposition	High-silica water
12 **Closed Loop Inhibitor**	Nitrite/molybdate/azole etc.	Corrosion	Chilled water
13 **Chiller Chemical**	Corrosion + scale inhibitor	Corrosion/scale	HVAC/chillers
14 **pH/Alkalinity Control**	Acid/alkali formulation	pH/alkalinity	Cooling tower
15 **Cooling Tower Cleaner**	Acid/alkaline cleaner	Deposits/fouling	Periodic cleaning

Product selection, dosage and specifications are system-specific — refer TDS or consult our technical team.

TDS · SDS · COA on request



APPLICATION C · PROCESS CHEMICALS

REVERSE OSMOSIS MEMBRANE CARE

A complete membrane-care portfolio — protection against scale, colloidal and biological fouling and oxidant damage, plus cleaning and preservation.

PRODUCT RANGE	CHEMICAL TYPE	PURPOSE
01 RO Antiscalant – Standard	Polymer/phosphonate blend	Prevent membrane scaling
02 RO Antiscalant – High Silica	Specialty polymer	Silica control
03 RO Antiscalant – High TDS	Specialty formulation	High-TDS feed
04 RO Antiscalant – Sulfate Scale	Specialty formulation	$CaSO_4$/$BaSO_4$/$SrSO_4$ control
05 Phosphorus-Free Antiscalant	Polymeric	Environment/customer requirement
06 RO Membrane Acid Cleaner	Low-pH formulated cleaner	Remove carbonate/inorganic scale
07 RO Membrane Alkaline Cleaner	High-pH cleaner	Remove organic/biofouling
08 RO Organic Fouling Cleaner	Specialty formulation	Organic deposits
09 RO Biofouling Cleaner	Specialty chemistry	Biological deposits
10 RO Biocide	Membrane-compatible non-oxidizing biocide	Control biological growth
11 RO Membrane Preservative	Preservation chemical	Long-term shutdown
12 SMBS / SBS	Sodium metabisulfite/bisulfite	Dechlorination & preservation
13 RO pH Adjuster	Acid/alkali	Feed-pH control
14 RO Flocculant	PAM/coagulant	Pretreatment
15 RO Coagulant	PAC/ferric/aluminium chemistry	Colloid removal
16 UF/MF Membrane Cleaner	Acid/alkaline cleaner	UF/MF maintenance

Product selection, dosage and specifications are system-specific — refer TDS or consult our technical team.

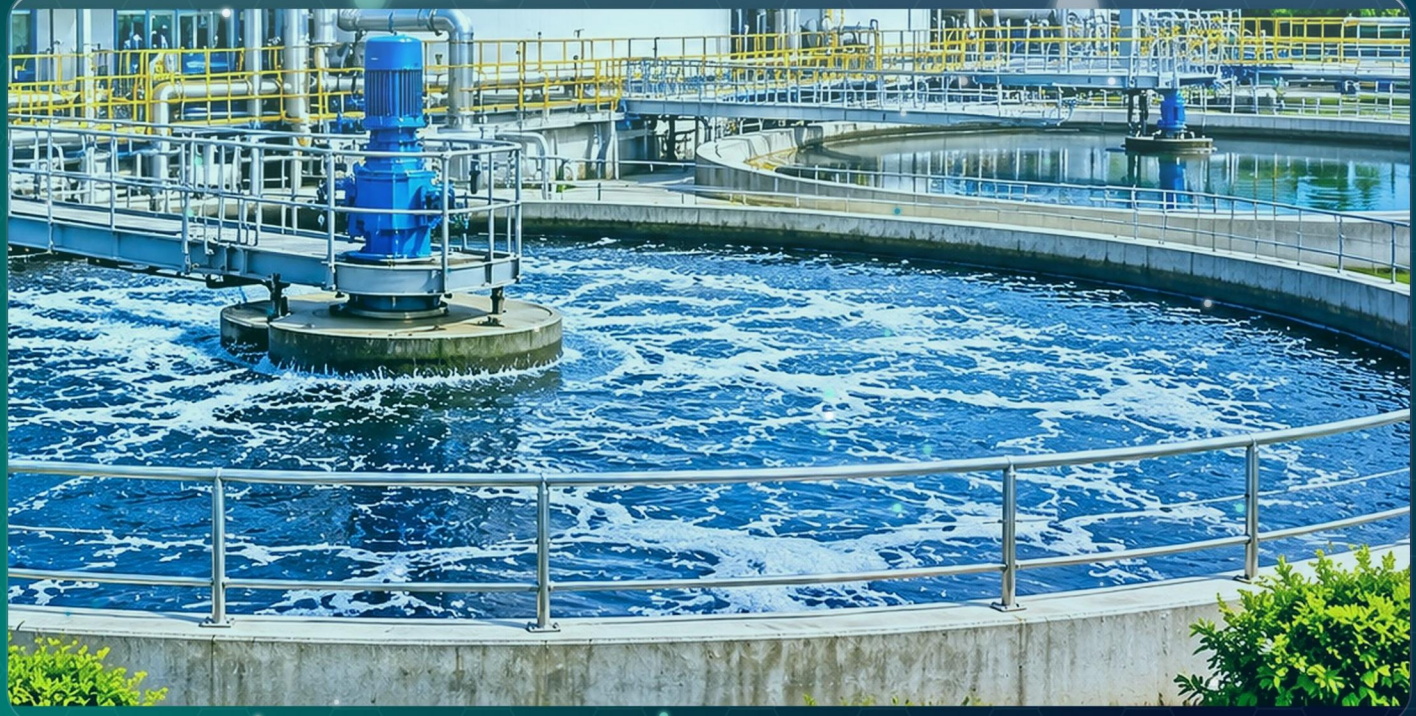
TDS · SDS · COA on request

05

CATEGORY 05

WASTEWATER TREATMENT CHEMICALS

Foam control, coagulation and flocculation chemistry for effluent treatment plants, helping achieve clear treated water, efficient sludge separation and smooth plant operation.



- **Silicone Defoamer**
- **Non-Silicone Defoamer**
- **Polyelectrolyte**
- **Polyacrylamide**

STEP 01

Coagulate

Charge neutralisation destabilises fine colloids.

STEP 02

Flocculate

Long polymer chains bridge particles into large flocs.

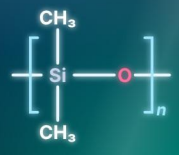
STEP 03

Separate

Flocs settle or float, leaving clear treated water.

05 WASTEWATER TREATMENT CHEMICALS

PRODUCT
Silicone Defoamer



Representative silicone: –[Si(CH$_3$)$_2$–O]$_n$–

05 · WASTEWATER TREATMENT CHEMICALS

Silicone Defoamer

Polysiloxane-based antifoam

Silicone-based defoamer that rapidly knocks down existing foam and suppresses new foam formation in aeration tanks and process streams.

— MAIN APPLICATIONS
- ETP aeration tanks
- Textile processing effluent
- Paper and pulp process water
- Industrial process foam

— FEATURES & BENEFITS
- Fast foam knock-down
- Long-lasting suppression
- Effective at low dosages
- Chemically inert base

— INDUSTRIES
Textile · Paper · Chemical · Municipal · Food

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
Non-Silicone Defoamer



Illustrative graphic — not a molecular structure

Chemistry: refer TDS

05 · WASTEWATER TREATMENT CHEMICALS

Non-Silicone Defoamer

Silicone-free antifoam

Silicone-free defoamer for applications where silicone is undesirable, controlling foam in effluent and process systems without silicone residues.

— MAIN APPLICATIONS
- Effluent treatment plants
- Processes sensitive to silicone
- Fermentation and process water
- Cooling and wash water

— FEATURES & BENEFITS
- No silicone residues
- Good foam control
- Easy dispersion in water
- Suitable for sensitive processes

— INDUSTRIES
Chemical · Paints · Textile · Paper · Pharma

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
Polyelectrolyte



Illustrative graphic — not a molecular structure

Ionic grade & chemistry: refer TDS

05 · WASTEWATER TREATMENT CHEMICALS

Polyelectrolyte

Water-soluble charged polymer

Water-soluble polyelectrolyte used as a coagulant aid and flocculant. Grades are selected to suit the charge of the suspended solids in the water being treated.

— MAIN APPLICATIONS
- Clarifiers and settling tanks
- Sludge thickening and dewatering
- DAF units
- Raw water clarification

— FEATURES & BENEFITS
- Faster settling
- Clearer supernatant
- Improved sludge dewatering
- Lower overall chemical use

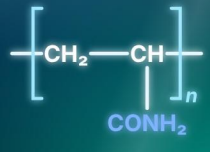
— INDUSTRIES
Municipal · Textile · Paper · Sugar · Mining

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
Polyacrylamide



Repeat unit: –[CH$_2$–CH(CONH$_2$)]$_n$–

05 · WASTEWATER TREATMENT CHEMICALS

Polyacrylamide

Acrylamide-based flocculant

High-molecular-weight acrylamide polymer that bridges fine particles into large, fast-settling flocs. Available in different ionic characters to suit each application.

— MAIN APPLICATIONS
- Effluent clarification
- Sludge dewatering (belt / centrifuge)
- Mineral and mining water
- Paper retention and drainage

— FEATURES & BENEFITS
- Large, strong flocs
- Rapid settling
- Better cake dryness
- Low dosage requirement

— INDUSTRIES
Mining · Municipal · Paper · Textile · Oil & gas

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

06

CATEGORY 06

SWIMMING POOL CHEMICALS

Sanitation and algae-control chemistry for crystal-clear, hygienic pool water — granular chlorine donors and copper-based algae control for pools, water features and disinfection duties.



- **TCCA 90 Granular**
- **SDIC 60 Granular**
- **Copper Sulphate**

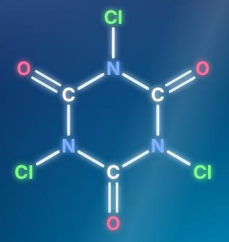
STEP 01
Dissolve
Granules release available chlorine into the water.

STEP 02
Sanitise
Hypochlorous acid oxidises bacteria and organic contaminants.

STEP 03
Protect
Residual sanitiser and algae control keep water clear.

06 SWIMMING POOL CHEMICALS

PRODUCT
TCCA 90 Granular



TCCA · $C_3Cl_3N_3O_3$

06 · SWIMMING POOL CHEMICALS

TCCA 90 Granular

Trichloroisocyanuric acid — granular

Stabilised, slow-dissolving chlorine donor in granular form. Releases available chlorine steadily for sanitation and disinfection of pool and process water.

MAIN APPLICATIONS
- Swimming pool sanitation
- Cooling tower disinfection
- Water tank disinfection
- Surface sanitation

FEATURES & BENEFITS
- High available chlorine
- Stabilised chlorine release
- Slow, steady dissolution
- Convenient granular form

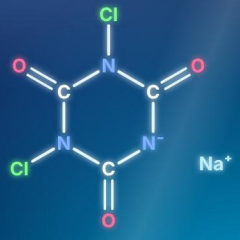
INDUSTRIES
Pools & spas | Hospitality | HVAC | Municipal | Industry

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
SDIC 60 Granular



SDIC · $C_3Cl_2N_3NaO_3$

06 · SWIMMING POOL CHEMICALS

SDIC 60 Granular

Sodium dichloroisocyanurate — granular

Fast-dissolving stabilised chlorine donor. Suitable for shock treatment, routine pool sanitation and general water disinfection duties.

MAIN APPLICATIONS
- Pool shock and routine dosing
- Drinking water disinfection systems
- Surface and equipment sanitation
- Hospitality water hygiene

FEATURES & BENEFITS
- Rapid dissolution
- Near-neutral pH effect
- Stabilised chlorine
- Easy handling

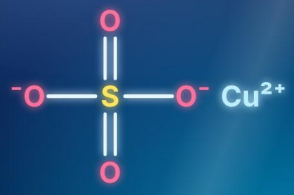
INDUSTRIES
Pools & spas | Hospitality | Healthcare | Municipal | Food

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
Copper Sulphate



$CuSO_4$ · grade (anhydrous / hydrate): refer TDS

06 · SWIMMING POOL CHEMICALS

Copper Sulphate

Inorganic copper salt

Inorganic copper salt used for algae control in pools, ponds and water bodies within applicable dosing norms, and as an industrial raw material.

MAIN APPLICATIONS
- Algae control in pools and ponds
- Reservoir and water body treatment
- Electroplating
- Agriculture and industrial use

FEATURES & BENEFITS
- Effective algae control
- Readily soluble
- Long-established chemistry
- Multi-industry use

INDUSTRIES
Pools | Agriculture | Electroplating | Mining | Chemical

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

07

CATEGORY 07

IMPORTED CHEMICALS

Selected imported speciality chemicals sourced through trusted international supply chains to complement the ZEELCHEM™ range for boiler, process and cleaning applications.



- **Hydrazine Hydrate**
- **Morpholine**
- **Citric Acid Monohydrate**

STEP 01
Global sourcing
Qualified international manufacturers.

STEP 02
Quality check
Incoming inspection and documentation.

STEP 03
Reliable supply
Stock and delivery support for industry.

07 IMPORTED CHEMICALS

PRODUCT
Hydrazine Hydrate



$N_2H_4 \cdot H_2O$

07 · IMPORTED CHEMICALS

Hydrazine Hydrate

Inorganic reducing agent

Strong reducing agent used as an oxygen scavenger in high-pressure boiler feedwater and as an intermediate in chemical manufacturing. Handle strictly as per SDS.

MAIN APPLICATIONS
- Boiler feedwater oxygen scavenging
- Chemical and pharma intermediates
- Polymer blowing agents
- Metal reduction processes

FEATURES & BENEFITS
- No dissolved solids added to boiler water
- Passivates steel surfaces
- High purity supply
- Versatile intermediate

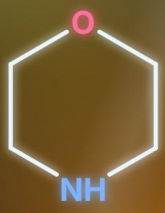
INDUSTRIES
Power | Pharma | Chemical | Agrochemical | Polymers

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
Morpholine



Morpholine · C_4H_9NO

07 · IMPORTED CHEMICALS

Morpholine

Heterocyclic amine

Volatile neutralising amine used to raise condensate pH and control carbonic acid corrosion in steam and condensate lines; also a chemical intermediate.

MAIN APPLICATIONS
- Condensate line corrosion control
- Steam system pH adjustment
- Rubber chemicals and intermediates
- Corrosion inhibitor formulations

FEATURES & BENEFITS
- Volatile — travels with steam
- Neutralises carbonic acid
- Protects condensate lines
- Well-established chemistry

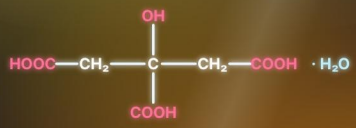
INDUSTRIES
Power | Process plants | Rubber | Chemical | Pharma

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

PRODUCT
Citric Acid Monohydrate



$C_6H_8O_7 \cdot H_2O$

07 · IMPORTED CHEMICALS

Citric Acid Monohydrate

Organic carboxylic acid

Organic acid with chelating properties used for descaling, membrane acid cleaning, pH adjustment and as an acidulant in food and beverage applications.

MAIN APPLICATIONS
- RO membrane acid cleaning
- Descaling of equipment
- pH adjustment
- Food and beverage acidulant

FEATURES & BENEFITS
- Biodegradable organic acid
- Chelates metal ions
- Safer handling than mineral acids
- Multi-industry use

INDUSTRIES
Water treatment | Food | Pharma | Detergent | Cosmetics

Specifications · Appearance · Packaging: refer TDS (TBC)

TDS · SDS · COA on request

Enquire now →

QUALITY · DOCUMENTATION · PACKAGING

Quality you can verify.

Every ZEELCHEM™ product is produced and supplied under our ISO 9001:2015, ISO 22000:2018 and ISO 14001:2015 certified management systems, with documentation available to support your procurement, safety and quality teams.

STEP 01
Raw material inspection

STEP 02
Controlled manufacturing

STEP 03
In-process testing

STEP 04
Finished product QC

STEP 05
COA & dispatch

TDS
TECHNICAL DATA SHEET

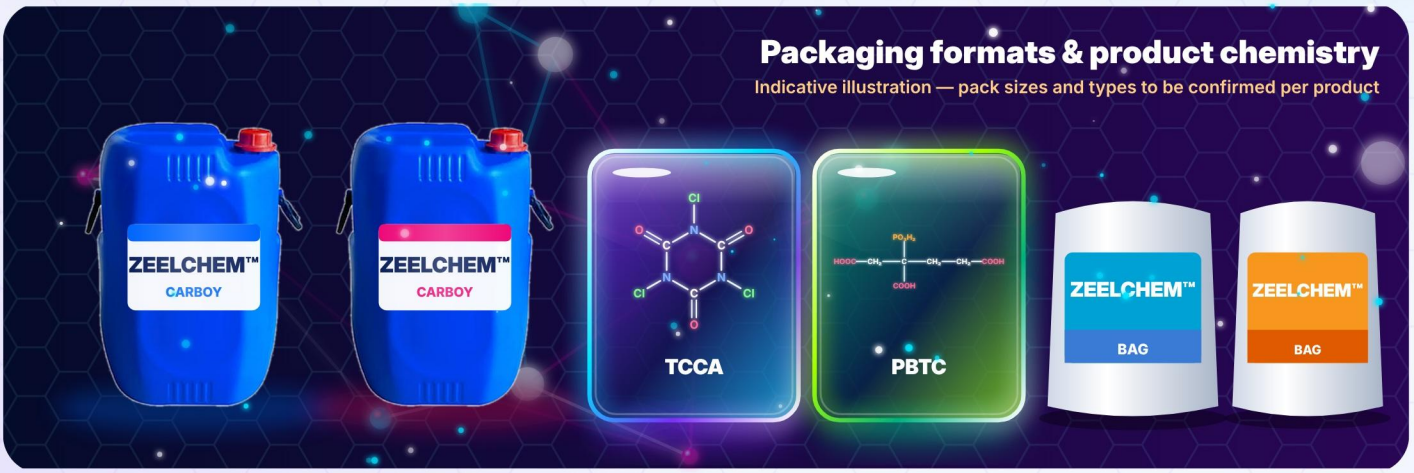
Product description, typical properties and application guidance.

SDS
SAFETY DATA SHEET

Hazard identification, safe handling, storage and emergency measures.

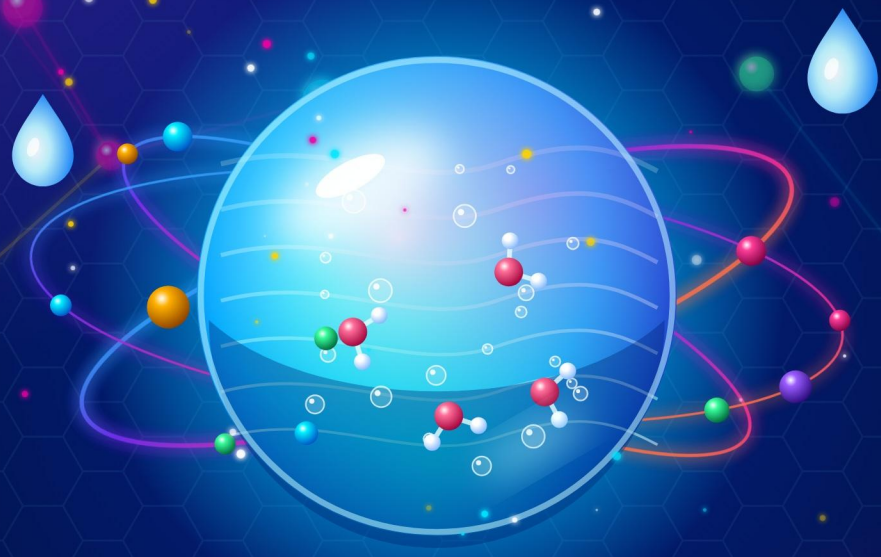
COA
CERTIFICATE OF ANALYSIS

Batch-wise test results for the supplied lot.



Safe handling
Several products in this catalogue are hazardous chemicals. Always read the SDS before use, wear suitable PPE and store as directed.

Technical data
Typical properties, specifications and recommended dosages are provided in each product's TDS and by our technical team.



LET'S BUILD A BETTER WATER FUTURE.

ZEEL PRODUCT®

ADVANCED WATER TREATMENT CHEMICAL SOLUTIONS

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CONTACT OUR TECHNICAL TEAM FOR PRODUCT INFORMATION AND INDUSTRIAL SOLUTIONS.

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