



Promoting Green Technology

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*Product
Profile*



Gujarat Alkalies and Chemicals Limited is a name to reckon with in the chemical industry in India. Initiated with a modest capacity of just 37,425 TPA Caustic Soda, today GACL has become one of the largest Caustic Soda producer in India, with two large complexes at Baroda and Dahej in the State of Gujarat. From a humble beginning, the Company has emerged as one of the largest manufacturers of caustic soda with around 12% share in domestic Chlor-Alkali sector.

State-of-the Art energy efficient and eco-friendly technologies, secured through internationally reputed collaborations, have enabled GACL to meet international specifications for its products. Notable among them are Membrane Cell Process for Caustic Soda and Caustic Potash, Auto-oxidation Process for Hydrogen Peroxide (Technologies supplied by Uhde GmbH, Germany and Chematur Engineering AB, Sweden), Chlorination of Methane to manufacture (Technology supplied by Shin Etsu, Japan), Reaction of Hydrochloric Acid with Rock Phosphate to manufacture Phosphoric Acid (Technology supplied by IMI, Israel and Niro Kestner, France), Potassium Carbonate (Technology supplied by Bertram, Switzerland). Ample stress is laid on research and Development Centre, recognized by the Department of Science and Technology, Government of India.

GACL has the advantage of self sufficiency in Power. Power is a major input to the electrolysis process which produces Caustic Soda, Chlorine and Hydrogen simultaneously.

GACL is one of the promoters of M/s Gujarat Industries Power Company Limited, a Joint Captive Power Plant for the participating industries located in Baroda. GACL has also set up its own Captive Co-generation Plant with a capacity of 90 MW at Dahej. Moreover to meet its need for energy and to promote the use of renewable sources of green energy, GACL has set up wind farm of 171.45 MW and 35 MW Solar Power Project.

Salt is another major input to the Caustic Soda production process Gujarat is the largest producer of salt in India. With the manufacturing facilities located in Gujarat, it has the advantage of proximity to the source of salt production, which are mainly located in Dahej, Saurashtra and Kachchh.

With a strong dealer network, in-house research and Development facilities, proximity to major raw material sources and markets GACL is scaling new peaks of glory. By balancing the interest of mother nature, society, employees, customers, stakeholders and shareholders, the organisation is making its growth more meaningful.

With more than 5,000 customers including some of the finest global corporations, GACL has established itself strongly in the markets of North America, Europe, Africa, Asia Pacific, MENA (the Middle East and North Africa) and other regions. The organization is playing a significant role in enriching Gujarat and empowering the progressive strides of the nation.

GACL's sheer focus on quality is reflected in the fact that it has certification i.e. ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018 Along with progressive leadership, the company also fulfills its social commitments, environment being its prime concern.

Our Products

Caustic soda lye	Sodium chlorate
Hydrochloric acid	Caustic potash lye
Liquid chlorine	Caustic potash flakes
Caustic soda flakes	Potassium carbonate
Caustic soda prills	Anhydrous aluminium chloride
Compressed hydrogen gas	Poly aluminium chloride (Virgin grade)
Anhydrous sodium sulphate	Stable bleaching powder
Methylene chloride	Chlorinated paraffin
Chloroform	Scalewin
Carbon tetrachloride	Biowin
Methyl chloride	Bleachwin
Hydrogen peroxide	Sodium hypochlorite
Phosphoric acid	Hydrazine Hydrate

CAUSTIC SODA LYE (NaOH)

CSL



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Caustic Soda Lye is manufactured by UHDE, Germany's Membrane Cell Technology.

APPLICATIONS

Major Consuming Industries :

- Pulp & Paper
- Textiles
- Soaps and Detergents
- Petroleum Products
- Aluminum Metal
- Chemical Process
- Bleach Manufacturing

SPECIFICATIONS

Sr.	Characteristic		Specifications
1.	Sodium Hydroxide (as NaOH)	%	47.00 min
2.	Sodium Carbonate (as Na ₂ CO ₃)	%	00.20 max
3.	Chloride (as Cl ⁻)	%	0.015 max
4.	Iron (as Fe ⁺⁺⁺)	ppm	10.00 max

Caution : Harmful to Animals & Plant tissues Corrosive

ADVANTAGES

- GACL guarantees minimum 47.0% purity of NaOH.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- In Tanker Load

PRODUCTION CAPACITY

- 1290 Metric Tonnes/day at Vadodara and Dahej Complexes (Combined)

CONTACT

Phone : +91-265-6111000/7119000

Email : headmarketing@gacl.co.in

For Export Inquiries : export@gacl.co.in

Website : www.gacl.com



Gujarat Alkalies and Chemicals Limited

An ISO Certified Company

(Promoted by Govt. of Gujarat)

Vadodara Complex (Regd. Office & Works) : P. O. Ranoli - 391 350,
Dist. Vadodara (Gujarat) INDIA

Dahej Complex (Works) : P. O. Dahej-392 130, Tal. Vagra,
Dist. Bharuch (Gujarat) INDIA

CAUSTIC SODA LYE (NaOH)

CAUSTIC SODA FLAKES (NaOH)

CSF



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Caustic Soda Flakes is manufactured from Caustic Soda Lye produced by Membrane Cell Technology of UHDE, Germany.

EXCLUSIVE FEATURES

- High purity Caustic Soda
- Free flowing white deliquescent pieces

APPLICATIONS

Major Consuming Industries :

- Pulp & Paper
- Textiles
- Soaps and Detergents
- Petroleum Products
- Aluminum Metal
- Chemical Process
- Bleach Manufacturing

SPECIFICATIONS

Sr.	Characteristic		Specifications
1.	Sodium Hydroxide (as NaOH) Dry basis	%	99.50 min
2.	Sodium Carbonate (as Na ₂ CO ₃)	%	00.40 max
3.	Chloride (as Cl)	%	00.03 max
4.	Iron (as Fe ⁺⁺⁺)	ppm	20.00 max

Caution : Exothermic reaction with water, human tissues

ADVANTAGES

- Dissolves gradually in water
- Easy to handle
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- 25 / 50 kg HDPE bags with inner HM-HDPE liner

PRODUCTION CAPACITY

- 165 Tonnes/day at Vadodara Complex
- 400 Tonnes/day at Dahej Complex

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Dist. Bharuch (Gujarat) INDIA

CAUSTIC SODA FLAKES (NaOH)

CAUSTIC SODA PRILLS (NaOH)

CSP



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At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. GACL Caustic Soda Lye is manufactured by Membrane Cell Technology of UHDE, Germany and Caustic Soda Prills manufactured by Technology of Bertram, Switzerland

EXCLUSIVE FEATURES

- Ultra High purity caustic soda
- Free flowing milky white granules
- Specially packed under completely dry and air-conditioned climate. Automatic weighing, heat sealing and stitching in dehumidified environment gives along lasting lumps-free storage

APPLICATIONS

Major Consuming Industries :

- Pulp & Paper
- Textiles
- Soaps and Detergents
- Petroleum Products
- Aluminum Metal
- Chemical Process
- Bleach Manufacturing

SPECIFICATIONS

Sr.	Characteristic	Specifications
1.	Sodium Hydroxide (As NaOH) on dry basis	% 99.40 min
2.	Sodium Carbonate (as Na ₂ CO ₃)	% 0.60 max
3.	Chloride (as NaCl)	% 0.02 max
4.	Irons (as Fe ⁺⁺⁺)	ppm 10.00 max
5.	Nickle (as Ni)	ppm 5.00 max
6.	Particle Size (nominal)	mm 0.25 to 1.3

Caution : Exothermic Reaction with water, human tissues

ADVANTAGES

- Good blending characteristics in dry mixtures because of uniform and optimum size of prills
- Excellent free-flow properties
- Reduces the risk of caking as prills are hard and crush resistant
- Prills dissolves faster hence needs only a short period of agitation
- Optimum utilization of stronger facilities being denser than flakes
- Safe handling during addition in reaction / dissolution compare to flakes

PACKING

- 50 kg/ 25 kgs HDPE bags with heat-sealed and automatically stitched inner plastic liner

PRODUCTION CAPACITY

- 100 Tonnes/day at Dahej Complex

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CAUSTIC SODA PRILLS (NaOH)

LIQUID CHLORINE (Cl₂)

LCH



At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Liquid Chlorine is manufactured by Eco-friendly, Mercury free Membrane Cell Technology of UHDE, Germany. GACL has attained “Nation First” status of prestigious BIS certification for Chlorine at Vadodara Complex.

APPLICATIONS

Manufacturing of:

- PVC (Poly Vinyl Chloride)
- Chlorinated Hydrocarbons
- Chlorinated Paraffin (CP)
- Water Purification
- Bleaching Agent
- Waste & Sewage treatment
- Disinfecting Agent
- Sanitizing agent
- Synthetic Rubber

SPECIFICATIONS

Sr.	Characteristic	Specifications	
1.	Chlorine Content	% v/v	99.80 min
2.	Moisture	% w/w	0.01 max

Caution : Threshold limit 1 ppm in air as per ACGIH norms

ADVANTAGES

- Membrane Technology at GACL gives Mercury free Chlorine, which can be used for Chlorine based products for Pharma applications also.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- 900 kg Tonner / 850 kg Tonner
- 50 kg Cylinder

PRODUCTION CAPACITY

- 490 MT /day at Vadodara Complex
- 680 MT /day at Dahej Complex

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LIQUID CHLORINE (Cl₂)

HYDROCHLORIC ACID (HCl)

HCl



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Hydrochloric Acid is manufactured by Chlorine and Hydrogen from Membrane Cell Technology of UHDE, Germany.

EXCLUSIVE FEATURES

- Colourless and Corrosive liquid
- Stable even at high temperature
- Low Iron content

APPLICATIONS

- Steel pickling and scale removal
- Water treatment
- Ore refining
- Food processing
- Manufacture of Chlorine Dioxide
- Activation of Petroleum wells
- Catalyst in Organic process
- Removal of heavy metal from Carbon Black and Activated Carbon
- Leaching Alumina from Crystalline Zeolites
- Hydrolyzing agent

SPECIFICATIONS

Sr.	Characteristic	Specifications	
1.	Hydrochloric Acid (as HCl)	%	30.00 min
2.	Iron (as Fe ⁺⁺⁺)	ppm	1.00 max
3.	Free Chlorine & Bromine	%	0.0020 max

Caution : Threshold limit 5 ppm in air as per ACGIH norms

ADVANTAGES

- GACL HCl is guaranteed with minimum 30% concentration.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- MS Rubber lined Road Tankers
- 35 kg Carboys for Export
- 265 kg HM - HDPE Barrels for Export

PRODUCTION CAPACITY (30-32% Con. Basis)

- 450 MT / day at Vadodara Complex
- 550 MT / day at Dahej Complex

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HYDROCHLORIC ACID (HCl)

COMPRESSED HYDROGEN GAS (H₂)

CHG



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Hydrogen Gas is manufactured by UHDE, German Technology, of Membrane Electrolyser. It is compressed to 150-kg/cm² pressure to fill in cylinders or cylinder banks.

EXCLUSIVE FEATURES

- High purity Hydrogen due to Membrane Electrolyser Technology
- Colourless & Odourless gas
- Mercury free

APPLICATIONS

- Organic Hydrogenation
- As a Fuel
- Catalytic Reduction
- Hydrochloric Acid Manufacture
- As a Reducing agent
- Ammonia Synthesis
- Hydrogen-fuel cells manufacture used in eco-friendly automobiles

SPECIFICATIONS

Sr.	Characteristic	Specifications
I.	Purity (as H ₂)	% 99.50 min

Caution : Flammable limit in Air: 4 to 75 vol. %.
Explosive mixture with Oxygen.

ADVANTAGES

- GACL guarantees minimum 99.5% purity of H₂ as it is produced by Electrolysis.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- Cylinder (5,6 & 7 NM³)
- H₂ Cylinder Banks / Skids

PRODUCTION CAPACITY

- 25000 NM³/day at Dahej Complex at 150 kg/cm² / 200 kg/cm² pressure
- 15000 NM³/day at Vadodara Complex at 150 kg/cm² / 200 kg/cm² pressure

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COMPRESSED HYDROGEN GAS (H₂)

SODIUM HYPOCHLORITE (NaOCl) (Soda bleach, chlorine bleach)

SHO



At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Sodium Hypochlorite is manufactured by technology of UHDE India.

EXCLUSIVE FEATURES

- Sodium hypochlorite is an excellent sterilizer, oxidizer and decolouring agent.
- Strong Disinfectant

APPLICATIONS

- Bleaching agent for rayon pulp and paper, cotton, linen and jute.
- Disinfectant in dairies and creameries
- Water treatment (Chlorination)
- Pool Chlorination
- Household bleach
- Germicide
- Fungicide

SPECIFICATIONS

Sr.	Characteristic	Specifications	
1.	Sp. Gravity (15°C/4°C)	—	—
2.	Available Chlorine	gpl	40 to 200
3.	NaOH	gpl	>5.0

ADVANTAGES

- The Material is having higher stability and purity.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- Tanker Load

PRODUCTION CAPACITY

- 30 m/Day - Baroda
- 50 m/Day - Dahej

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SODIUM HYPOCHLORITE (NaOCl)

SODIUM SULPHATE (ANHYDROUS) (Na₂SO₄)

SS(A)



Creating Wealth Out of Waste...

Sodium Sulphate (Anhydrous) is produced from reject stream of Caustic Soda plant with Indigenous Technology.

EXCLUSIVE FEATURES

- Free flowing white crystalline powder
- Hygroscopic in nature
- Completely soluble in water

APPLICATIONS

- Laundry detergent
- Textile industry
- Pharma industry
- Glass industry
- Wood pulp industry
- Food industry

SPECIFICATIONS

Sr.	Characteristic		Specifications	Typical
1.	Sodium Sulphate (Min)	%	99.00	99.50
2.	Insoluble in water (Max)	%	0.25	Traces
3.	Chlorides as NaCl (Max)	%	0.30	0.10
4.	Iron as Fe (Max)	ppm	20	10
	Moisture	%	0.50	0.10

ADVANTAGES

- Free flowing powder – Easy to handle
- Readily soluble in water with practically no insoluble

PACKING

- 50 Kg HDPE bag with liner

PRODUCTION CAPACITY

- 10MT per day at Dahej Complex

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SODIUM SULPHATE (ANHYDROUS) (Na₂SO₄)

ANHYDROUS ALUMINIUM CHLORIDE (AlCl₃)-Technical Grade

ALC



GACL's Aluminium Chloride Anhydrous
At GACL we bring the premium quality products Manufactured by the state-of-the-art technologies. Aluminium Chloride Anhydrous is produced from the reaction of pure gaseous chlorine with high purity molten Aluminium.

EXCLUSIVE FEATURES

- Low iron content
- Low metal impurities
- Low insoluble content
- High purity Aluminium Chloride

APPLICATIONS

- Reforming Hydrocarbons
- Electrolytic production of Aluminium
- Manufacturing of Dodecylbenzene
- Ethylbenzene for Styrene
- Anthraquinones
- Acetophenone & Benzophenone
- Titanium Dioxide
- Aromatic Chemicals
- Pesticides & Pharmaceuticals
- Dyes & Pigments

SPECIFICATIONS

Sr. No.	Characteristics	Unit	Anhydrous ALC Powder	Grain I GA	Grain II GB
1	Purity Min.	%	99.0	99.3	99.3
2	Water Insoluble Max.	%	0.02	0.01	0.01
3	Non-Volatile Max.	%	0.9	0.7	0.7
4	Free Aluminium Max.	ppm	50	50	50
5	Iron as Fe ⁺⁺⁺ Max.	ppm	50	10	10
6	All other metals Max.	ppm	150	150	150
7	Particle Size	mm	0-0.85 & 0-1.41	1.41-4.76	4.76-10

Caution : Hygroscopic and corrosive.
Reacts with water generates heat.

ADVANTAGES

GACL guarantees minimum 99% purity of Aluminium Chloride Anhydrous.

PACKING

- The product is screened and packed in vacuum condition followed by nitrogen blanketing & heat sealing in :
 - 25 Kg. PVC, LDPE bags
 - 250 Kg. UN approved MS Drums
 - Special packing as per Customer requirements.
 - 500 Kg. Jumbo bags

PRODUCTION CAPACITY

- 1000 MT / Month at Vadodara Complex
- 3600 MT / Month at Dahej Complex

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ANHYDROUS ALUMINIUM CHLORIDE (AlCl₃ - Technical Grade)

CHLORINATED PARAFFIN (CP)

CP



At GACL we bring the premium quality products manufactured by the state-of-the-art technologies. Chlorinated Paraffin is produced from the reaction of Heavy Normal Paraffin with Chlorine.

EXCLUSIVE FEATURES

- Pure HNP Base
- Heat Stability
- Excellent Flame retardant properties
- Low volatile loss

APPLICATIONS

- Secondary Plasticiser in PVC compounding, Pipes & Hoses, Cable Compound, Footwear, Leather Cloth
- Additive in Lubricating Oils
- Additive in special grades of paints

SPECIFICATIONS

Sr.	Characteristics	Specifications	
1.	Grade	CP - 50 to 52	CP - 60
2.	Chlorine, %	50 to 52	60 to 62
3.	Appearance	White to Pale Yellow viscous liquid	White to Light Yellow viscous liquid
4.	PH	6.0 to 6.5	6.0 to 6.5
5.	Sp. Gravity at 27C	1.280 + 0.01	1.40 + 0.01
6.	Heat Stability at 180C for 1 hour	-	-
7.	Colour (HU) Max.	50	70
8.	Volatile loss 130°C/3 Hrs. % Max.	1.0	1.0
9.	Viscosity at 27°C (Poise)	18±6	1100±300
10.	Refractive Index at 27°C	1.506±0.002	1.520±0.002
11.	Free Mineral Acidity % Max.	0.001	0.001
12.	Paraffin Range	C14 - C17	C14 - C17

Caution : Contact with Eyes & Skin may cause irritation, avoid breathing vapours.

ADVANTAGES

GACL guarantees excellent Heat Stability of CP and lower volatile loss thereby increasing yield.

PACKING

- 250 KGS. UN Approved HDPE Barrels
- Tanker Load

PRODUCTION CAPACITY

- 600 MT / Month at Manjusar

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Job work



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CHLORINATED PARAFFIN (CP)

CAUSTIC POTASH LYE (KOH)

CPL



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Caustic Potash Lye is manufactured by UHDE, Germany's Membrane Cell Technology.

EXCLUSIVE FEATURES

- Mercury free

APPLICATIONS

- Potassium Carbonate
- Dye Stuff industry
- Rubber Chemicals
- Potassium Permanganate
- Acid Neutralization
- Other Potassium based chemicals
- Pharmaceutical industry

SPECIFICATIONS

Sr. Characteristic	Specifications
1. Potassium Hydroxide (as KOH)	% 47.00 min
2. Potassium Carbonate (as K ₂ CO ₃)	% 00.50 max
3. Chloride (as KCl)	ppm 150.00 max
4. Iron (as Fe ⁺⁺⁺)	ppm 20.00 max

Caution : Harmful to Animals & Plant Tissues; Corrosive

ADVANTAGES

- GACL guarantees minimum 47% purity of KOH. Caustic Potash Lye is stable even at high temperatures.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- In Tanker load

PRODUCTION CAPACITY

- 95 Tonnes / day at Vadodara Complex (100% basis)

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CAUSTIC POTASH LYE (KOH)

CAUSTIC POTASH FLAKES (KOH)

CPF



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At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Caustic Potash Flakes is produced from Caustic Potash Lye manufactured by UHDE, Germany's Membrane Cell Technology.

EXCLUSIVE FEATURES

- Mercury free
- Low Iron content

APPLICATIONS

- Potassium Carbonate manufacturing
- Dye Stuff industry
- Rubber Chemicals
- Potassium Permanganate manufacture
- Acid Neutralization
- Other Potassium based chemicals
- Pharmaceutical industry
- Petroleum Refining
- Fertilizer Ind
- Cosmetic Ind

SPECIFICATIONS

Sr. Characteristic	Specifications
1. Potassium Hydroxide (as KOH) Gr I	% 90.00 min
2. Potassium Hydroxide (as KOH) Gr II	% 87.00 min
3. Potassium Carbonate (as K ₂ CO ₃)	% 1.00 max
4. Chloride (as KCl)	ppm 300.00 max
5. Iron (as Fe ⁺⁺⁺)	ppm 20.00 max

Caution : Harmful to Animals & Plant Tissues; Corrosive

ADVANTAGES

- GACL guarantees minimum 90% & 87% purity of KOH.
- Caustic Potash Flakes is stable even at high temperatures.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- 25 / 50 kg HDPE bags with inner HM-HDPE liner

PRODUCTION CAPACITY

- 45 MT / day at Vadodara Complex

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CAUSTIC POTASH FLAKES (KOH)

POTASSIUM CARBONATE (K₂CO₃) - Powder & Granules

PCN



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Potassium Carbonate is manufactured by Technology Bertrams, Switzerland.

EXCLUSIVE FEATURES

- White, Deliquescent inorganic compound
- Melting point 891°C and specific gravity of 2.428 at 19°C
- Soluble in water and insoluble in Alcohol
- Available in Granules and powder form

APPLICATIONS

- GLS lamps and Ophthalmic glasses
- Fertilizer industry
- Rubber Chemicals
- Pesticide Industry
- Dyes industries and other Potassium based chemicals
- Pharmaceutical Industry
- Agricultural Ind.
- Glass Industries

SPECIFICATIONS

Sr. Characteristic	Specifications
1. Total Alkalinity (as K ₂ CO ₃) on dry basis	% 99.00 min
2. Free Alkali as KOH	% 00.20 max
3. Bi Carbonate (as KHCO ₃)	% 00.40 max
4. Chloride (as KCl)	ppm 150.00 max
5. Iron (as Fe+++)	ppm 10.00 max

Caution : Decomposes when heated, emitting toxic fumes

ADVANTAGES

- GACL guarantees minimum 99% purity and chemically stable Potassium Carbonate of international quality. Product is made from Caustic Potash Lye from Membrane Cell Technology with Mercury-free quality.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- 25 / 50 kg HDPE woven bags with inner HM - HDPE liner

PRODUCTION CAPACITY

- 44 Tonnes / day of Potassium Carbonate (Powder & Granules)

CONTACT

Phone : +91-265-6111000/7119000

Email : headmarketing@gacl.co.in

For Export Inquiries : export@gacl.co.in

Website : www.gacl.com



Gujarat Alkalies and Chemicals Limited

An ISO Certified Company

(Promoted by Govt. of Gujarat)

Vadodara Complex (Regd. Office & Works) : P. O. Ranoli - 391 350, Dist. Vadodara (Gujarat) INDIA

Dahej Complex (Works) : P. O. Dahej-392 130, Tal. Vagra, Dist. Bharuch (Gujarat) INDIA

POTASSIUM CARBONATE (K₂CO₃)

METHYLENE CHLORIDE (CH₂Cl₂ - Dichloromethane)

MDC



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Methylene Chloride is manufactured by Technology of Shin Etsu, Japan since 1986.

EXCLUSIVE FEATURES

- Colourless, & non-flammable. Boiling Point : 40.1°C, clear liquid with stability upto 60°C
- Low toxicity and safe in handling

APPLICATIONS

- Manufacturing of Polycarbonates, Phenolics, Rayon yarn
- Solvent for Cellulose Acetates, Photo-resist, Tablet film coatings
- Paint & Grease removing agent
- Fire fighting agent
- Extractant for Edible fats, Cocoa, Butter and Essences
- Adhesives for Polymethyl Methacrylate
- Aerosol Propellant, Refrigerant
- Chemical reaction media
- Low temperature heat transfer medium
- Pharmaceutical Industry - API/Bulk Drugs

SPECIFICATIONS

Sr. Characteristic	Specifications	
1. Colour	APHA	10.00 max
2. Sp. Gravity (15°C/4°C)		1.332/1.340
3. Purity	%	99.90 min
4. Methyl Chloride	ppm	20.00 max
5. Chloroform	ppm	40.00 max
6. Carbon Tetrachloride	ppm	10.00 max
7. Trans 1-2 Dichloroethylene	ppm	80.00 max
8. Moisture	ppm	200.00 max
9. Free Chlorine	ppm	1.00 max
10. Acidity as HCL	ppm	1.00 max

Caution : Threshold limit 50 ppm as per ACGIH norms

ADVANTAGES

- GACL guarantees minimum 99.9% pure Methylene Chloride of international quality.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- Zinc coated GI Barrels of 250 kg net weight for Export
- 250 kg net weight HM-HDPE Barrels for Domestic Market
- 40 kg net weight HM-HDPE Drums for Domestic Market
- SS tankers for Domestic

PRODUCTION CAPACITY

- 115 - 120 Metric Tonnes/day

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METHYLENE CHLORIDE (CH₂Cl₂ - Dichloromethane)

CHLOROFORM (CHCl₃ - Trichloromethane)

CFP



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Chloroform is manufactured by Technology of Shin Etsu, Japan since 1986.

EXCLUSIVE FEATURES

- Colourless, non-flammable volatile liquid.
Boiling Point: 61.3°C
- Miscible with organic solvents and slightly soluble in water with etheric colour

APPLICATIONS

- Fluorocarbon Refrigerants and Resins
- Fire fighting Agent
- Solvent in Dye and Perfume manufacturing
- Extract ant for Penicillin, Essential Oils, and Alkaloids, Nicotine, etc.
- Soil Fumigants, Mildew Preventives
- Pharmaceutical preparations

SPECIFICATIONS

Sr. Characteristic	Specifications
1. Colour	APHA 10.00 max
2. Sp. Gravity (15°C/4°C)	1.498/1.502
3. Purity	% 99.90 min
4. Methylene Chloride	ppm 40.00 max
5. Carbon Tetrachloride	ppm 40.00 max
6. 1,1 Dichloroethane	ppm 80.00 max
7. CIS 1-2 Dichloroethene	ppm 130.00 max
8. Moisture	ppm 100.00 max
9. Free Chlorine	ppm 1.00 max
10. Acidity as HCL	ppm 1.00 max

Caution :: Threshold limit 10 ppm as per ACGIH norms

ADVANTAGES

- GACL guarantees minimum 99.9% pure Chloroform of international quality which is stable upto 120°C with common construction metals in presence of light and water.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- Zinc coated non returnable GI Barrels each of 250 kg net weight for Export
- 280 kg net weight for domestic market in HM-HDPE Barrels
- SS tankers for Domestic

PRODUCTION CAPACITY

- 50 Metric Tonnes/day

CONTACT

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Dist. Bharuch (Gujarat) INDIA

CHLOROFORM (CHCl₃ - Trichloromethane)

CARBON TETRACHLORIDE (CCl₄ - Tetrachloromethane)

CTC



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Carbon Tetrachloride is manufactured by Technology of Shin Etsu, Japan since 1986.

EXCLUSIVE FEATURES

- Colourless, non-flammable liquid with moderately strong ethereal, non-irritant odour.
Boiling Point: 76.7°C
- Miscible with large number of common organic liquids. Slightly solubility with water

APPLICATIONS

- Fluorocarbon refrigerants and propellants
- Grain fumigants and flour bleaching
- Solvent in chlorinated rubber manufacturing and petroleum refining industry
- Grease removing agent for machinery and tool
- Dry-cleaning fluid
- Fire extinguisher
- Flotation fluid, synthesis of nylon-7
- Pharmaceutical preparations
- Agro chemicals

SPECIFICATIONS

Sr. Characteristic	Specifications
1. Colour	APHA 10.00 max
2. Sp. Gravity (15°C/4°C)	1.600/1.608
3. Purity	% 99.90 min
4. Methylene Chloride	ppm 10.00 max
5. Chloroform	ppm 100.00 max
6. Trichloroethylene	ppm 100.00 max
7. Moisture	ppm 50.00 max
8. Free Chlorine	ppm 1.00 max
9. Acidity as HCL	ppm 1.00 max

Caution : Threshold limit 10 ppm as per ACGIH norms
Hydrolyzes to form Hydrochloric Acid with Water

ADVANTAGES

- GACL guarantees minimum 99.9% pure Carbon Tetrachloride of international quality which is stable upto 130°C with common construction metals in presence of light and water.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- Zinc coated non returnable GI Barrels each of 250 kg net weight for Export
- 300 kg net weight for domestic market in HM-HDPE Barrels
- 60 kg net weight for domestic market in HM-HDPE drums
- SS tankers

PRODUCTION CAPACITY

- 12 - 15 Metric Tonnes/day

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Dist. Bharuch (Gujarat) INDIA

CARBON TETRACHLORIDE (CCl₄ - Tetrachloromethane)

METHYL CHLORIDE (CH₃Cl - Monochloromethane)

MC



We are always the first and so

At GACL, We bring the premium quality products manufactured by the state-of-the-art technologies. Methylene Chloride is manufactured by Technology of Shin Etsu, Japan since 1986.

EXCLUSIVE FEATURES

- Highly Volatile (Boiling Point: -23.7°C, Colourless, toxic, non flammable liquid)
- It is miscible with common organic liquids, slightly soluble in water

APPLICATIONS

- Chlorosilanes monomer manufacture
- Manufacture of Paraquet
- Drug & Pharmaceuticals
- Manufacture of Tetramethyl lead
- Refrigerant
- Methyl Cellulose
- Butyl Rubber
- Aniline dyes

SPECIFICATIONS

Sr.	Characteristic	Specifications	
1.	Colour	APHA	10.00 max
2.	Purity	%	99.9% min
3.	Methylene Chloride	ppm	80 max
4.	Chloroform	ppm	20.00 max
5.	Carbon Tetrachloride	ppm	10.00 max
6.	Acidity as HCL	ppm	1 max
7.	Free Chlorine	ppm	1 max

ADVANTAGES

- GACL guarantees minimum 99.9% pure Methyl Chloride of international quality.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

- 550 Kg Tonner

PRODUCTION CAPACITY

- 5 Metric Tonnes/day

CONTACT

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METHYL CHLORIDE (CH₃Cl - Monochloromethane)

PHOSPHORIC ACID (H₃PO₄ - Technical Grade)

PHA



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Phosphoric Acid is manufactured by Technology of IMI, Israel and Niro Kestner, France.

EXCLUSIVE FEATURES

- Colourless and odourless liquid
- Soluble in water alcohol
- Toxic by ingestion and inhalation
- Very low arsenic content

APPLICATIONS

- Pre-metal treatment chemicals
- Sugar refining
- Anodizing
- Stabilizing agent (Hydrogen Peroxide)
- Waster water treatment chemicals
- Activated Carbon
- Soaps and detergents
- Tea-leaf processing

SPECIFICATIONS

Sr. Characteristic	Specifications
1. H ₃ PO ₄ concentration	% 85 min
* 2. P ₂ O ₅	% 62.30
3. Iron as Fe	ppm 10.00 max
4. Sulphate as SO ₄	ppm 300.00 max
5. Chloride as Cl ⁻	ppm 15.00 max
6. Flouride as F	ppm 100.00 max
7. Ca and Mg	ppm 50.00 max
8. Heavy Metals as Pb (Lead)	ppm 10.00 max
* 9. Arsenic as As	ppm 1.00 max
* 10. Colour	Water White

* For 2,9,10 : COA as and when required by customer

Caution : Toxic by ingestion and inhalation

ADVANTAGES

- GACL guarantees minimum 85.0% purity and chemically stable water white Phosphoric Acid of international quality. It is made from Mercury-free HCl of our own plant.
- QCD is equipped with most modern instruments to analyze special tests also on request.

PACKING

- 50 kgs HM-HDPE Carboys
- HDPE Barrels
- Rubber lined SS

PRODUCTION CAPACITY

- 80 Tonnes/day of 85% concentrated technical grade Phosphoric Acid

CONTACT

Phone : +91-265-6111000/7119000

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PHOSPHORIC ACID (H₃PO₄ - Technical Grade)

PHOSPHORIC ACID (H₃PO₄ - Food Grade)

PHA



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Food Grade Phosphoric Acid is manufactured by Technology of Tenova Advanced Technologies, Israel

EXCLUSIVE FEATURES

- Colourless and odourless liquid
- Very low arsenic content
- High purity grade
- FSSAI approved

APPLICATIONS

- Sugar refining
- Edible oil refining
- Beverages
- Food grade phosphates
- PH control in food industry

SPECIFICATIONS

Sr. Characteristic	Specifications	
1. Phosphoric Acid as H ₃ PO ₄	%	85.0 min
2. Chloride as Cl	ppm	15 max
3. Fluoride as F	ppm	10.0 max
4. Sulphate as SO ₄	ppm	300 max
5. Heavy Metal Pb	ppm	4.0 max
6. Arsenic as As	ppm	2.0 max
7. Total Mercury (as Hg)	ppm	1.00 max
8. Aluminium (as Al)	ppm	10.000 max
9. Copper (as Cu)	ppm	30.0 max
10. Nitrates (as NO ₃)	ppm	5.000 max
11. Molybdenum (as Mo)	ppm	10.000 max
12. Tin (as Sn)	ppm	250.000 max
13. Volatile Acid	ppm	10.000 max
14. Cadmium (as Cd)	ppm	1.500 max

ADVANTAGES

- GACL guarantees minimum 85.0% purity and chemically stable water white Food Grade Phosphoric Acid of international quality. It is made from Mercury-free HCl of our own plant.
- QCD is equipped with most modern instruments to analyze special tests also on request.

PACKING

- 50 kgs HM-HDPE Carboys
- HDPE Barrels
- Rubber lined SS

PRODUCTION CAPACITY

- 100 Tonnes/day of 85% concentrated Food Grade Phosphoric Acid

CONTACT

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Dist. Bharuch (Gujarat) INDIA

PHOSPHORIC ACID (H₃PO₄ - Food Grade)

HYDROGEN PEROXIDE (H₂O₂)

HYP



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Hydrogen Peroxide is manufactured by "Auto Oxidation" process technology of UHDE, Germany and Chematur Engineering AB, Sweden.

EXCLUSIVE FEATURES

- Colourless, slightly viscous, water like liquid
- Miscible with water
- Mainly produces "ACTIVE OXYGEN" in all concerned processes.

APPLICATIONS

- As a Bleaching agent for Pulp, Paper, Textiles, Sugar, Coir & Tobacco Industries
- Antiseptic agent in Pharmaceuticals
- Sterilizing agent in Aseptic packing
- As raw material for Organic and Inorganic chemicals, Dyestuffs and Pesticides
- Effluent treatment
- Propellant for Rockets & Aircrafts
- Oxidizing agent for Silver ornaments
- Neutralizing agent in wine distillation
- Chemical reagent for extraction of different metals: Cobalt, Uranium, Tungsten, etc.
- As an etching & cleaning agent in Electronic industry and Process equipments

SPECIFICATIONS

Sr.	Characteristic	Grade	35% H ₂ O ₂ w/w	50% H ₂ O ₂ w/w	60% H ₂ O ₂ w/w
1.	Stability	ml. of O ₂ /25 ml at 100°C for 30 mins	0.30 max	0.30 max	0.30 max
2.	Acidity (as H ₂ SO ₄)	g/100 ml	0.03 max	0.03 max	0.07 max
3.	Iron (as Fe)	ppm	1.00 max	1.00 max	1.00 max
4.	Copper (as Cu)	ppm	0.10 max	0.10 max	0.10 max
5.	Arsenic (as As)	ppm	2.00 max	2.00 max	2.00 max
6.	Lead (as Pb)	ppm	10.0 max	10.0 max	10.0 max

For 2 to 6 : COA (Certificate of Analysis) as & when required by Customer

ADVANTAGES

- Use of Hydrogen Peroxide provides a "Clean Process" and enables to maintain pollution free environment as it decomposes to water and Oxygen. The rate of decomposition is as low as 1.0% per year at normal room temperature.
- QCD is equipped with most modern instruments to analyze special test on request.

PACKING

For 35% & 50% Conc.:

- 30 kgs/ 50 kgs HM-HDPE Carboys
- 250 kgs HM-HDPE Barrels
- Dedicated SS Tankers

For 60% Conc.:

- In dedicated SS Tankers & 30/50 kgs HM-HDP Carboys

PRODUCTION CAPACITY

- 45 Tonnes/day at Vadodara complexe (on 100% basis)
- 120 Tonnes/day at Dahej complexe (on 100% basis)

CONTACT

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HYDROGEN PEROXIDE (H₂O₂)

BLEACHWIN (Special Grade Hydrogen Peroxide Package)

BLW



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies.

Bleachwin is the result of collaborative research efforts of GACL & ATIRA (Ahmedabad Textiles Industry's Research Association) for Eco-friendly, Chlorine-free textile bleaching process exclusively developed for all hand processing units of India using special grade Hydrogen Peroxide in place of bleaching powder / Sodium Hypo Chlorite.

EXCLUSIVE FEATURES

- Special stabilizer is used to control the bleaching rate using GACL's special grade Hydrogen Peroxide
- Special activator is used to activate Hydrogen Peroxide at room temperature in all weathers
- No heating energy is required as used in textile process houses / textile mills
- Easily adoptable to existing setup of hand-processing sectors of India (Rajasthan, Gujarat, South India)
- No Chlorinated effluent generated like that in Hypo or Bleaching powder & hence it is an Eco-friendly process which is user-friendly also

SPECIFICATIONS

Sr. Characteristic	Specifications
Bleachwin Hydrogen Peroxide (H₂O₂)	
1. Appearance	Colourless liquid
2. Concentration	50% w/w
3. Stability	0.3 ml of O ₂ / 25ml at 100°C for 30 minutes
Bleachwin 1 (Special Stabilizer)	
1. Appearance	Clear yellowish Liquid
2. Ionic Nature	Anionic
Bleachwin 2 (Special Activator)	
1. Appearance	Pale Yellow Powder
2. Iron (as Fe)	6 ppm max

Caution : Activator should be stored in a cool, dry & well ventilated place. Avoid contact of wood & iron with 50% concentrated Hydrogen Peroxide. Store in a shed avoiding direct sunlight contact.

ADVANTAGES

- Bleaching cost is almost same with better bleaching quality
- "Whiteness" in the cloth is of permanent nature. Cloth does not become yellow like bleaching powder / Sodium Hypo bleached cloth later on
- Cold "Bleachwin" process saves 5000 litres of water for batch of 2000 mtrs of grey cloth
- It gives good feel to fabric without any residual Chlorine / Hypo smell
- This process of "Bleachwin" removes starch very well and improves absorbency which gives better results during dyeing and after dyeing
- It gives spotless uniform dyeing depth to the fabric

PACKING

Bleachwin Hydrogen Peroxide

- 30 kg / 50 kg HM-HDPE Carboys

Bleachwin 1 (Stabilizer)

- 50 kg HM-HDPE Carboys

Bleachwin 2 (Activator)

- 25 kg/50 kg HDPE bags with inner HM liner

PRODUCTION CAPACITY

- Bleachwin Hydrogen Peroxide - 500 MT per Annum
- Bleachwin Activator - 50 MT per Annum
- Bleachwin Stabilizer - 50 MT per Annum

CONTACT

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(Special Grade Hydrogen Peroxide Package)

BLEACHWIN



We are always the first and so...

At GACL, we bring the premium quality products manufactured by the state-of-the-art technologies. Scalewin has been developed in our own very well equipped R&D Centre.

EXCLUSIVE FEATURES

- Phosphonate based synergic blend of multi-metal corrosion inhibitors, dispersants and scale inhibitor
- Combats corrosion and scale problems in cooling water systems
- It has a good hydrolytic stability and sequestration properties, useful for cooling water system

APPLICATIONS

- Power plant cooling tower / cooling water system
- Cooling tower / cooling water system of chemical process plant
- Scalewin 1 & 2 are always used in combination in the power plants

SPECIFICATIONS

Sr. Characteristic	Specifications
Scalewin / Scalewin1	
1. Appearance	Colourless to pale yellow liquid
2. Sp. Gravity	1.05+/-0.05 gm/cc
3. pH	Less than 2
Scalewin 2	
1. Appearance	Pale yellow liquid
Sp. Gravity	1.10+/-0.05 gm/cc

Dose : Dosage may vary with system parameters and quality of water.

ADVANTAGES

Scalewin / Scalewin 1:

Organo Phosphonate based corrosion and scale inhibitor formulation, which can be used for trouble free operation of most of the cooling water systems.

Scalewin 2:

Azole based synergistic blend of multi-metal corrosion and scale inhibitors suitable for copper and brass metal cooling water system.

R&D is equipped with most modern instruments to analyze and carry out special test on request.

PACKING

- 50 kg HDPE Carboys

PRODUCTION CAPACITY

- 204 Metric Tonnes per annum at Vadodara Complex

CONTACT

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POLY ALUMINIUM CHLORIDE $(Al_n(OH)_mCl_{3m-n})_x$

PAC



At GACL we offer premium quality products manufactured by state-of-the-art technologies. Our Poly Aluminum Chloride (PAC) plant with technical know-how from Contec s.r.l., Italy.

SPECIFICATIONS (As per IS 15573): 2018

Sr.No.	Characteristics	Unit	PAC 10		PAC 14	PAC 18	PAC 30	
			MB	HB			MB (SUL)	MB (N.SUL)
1	Appearance		Light Pale Yellow		Pale Yellow	Pale Yellow	Pale Yellow	Pale Yellow
			Liq.	Liq.	Liq.	Liq.	Powder	Powder
2	Aluminium as Al_2O_3	% by Mass	10.0 ± 0.5	10.5 ± 0.3	13.5 ± 0.5	17.5 ± 1.0	29.0 ± 1.0	29.0 ± 1.0
3	Basicity	% by Mass	40.0 ± 5.0	64 (Min)	-	45.0 ± 5.0	40.0 ± 5.0	40.0 ± 5.0
4	Chloride as Cl^-	% by Mass	11.5 ± 1.0	9.5 ± 1.0	20.5 ± 1.5	20.5 ± 1.5	35.5 ± 2.0	33.0 ± 2.0
5	Sulphate as SO_4^{2-} (Max)	% by Mass	2.7	2.5	Nil	Nil	10	
6	Specific Gravity at 25° C		1.2 ± 0.04	1.2 ± 0.02	1.32 ± 0.02	1.37 ± 0.02	NA	NA
7	Bulk Density	Gm/ml	NA	NA	NA	NA	0.65 (Min)	0.65 (Min)
8	Insolubles, Max	% by Mass	0.5	0.5	-	-	1.5	1.5
9	pH of 5% Solution	w/v	1.8 - 4.5	2.5 - 4.5	1.8 - 4.5	1.8 - 4.5	1.8 - 4.5	2.5 - 4.5
10	Total Organic Content (TOC)	ppm	80	80	80	80	240	240

Caution : Acidic & Hygroscopic (Powder) in nature. **MB** : Medium Basicity **HB** : High Basicity

PACKING

- Powder (PAC30) : 25/50 kg PP woven bags with two inner LDPE liners
- Liquid (PAC 10, PAC 14 & PAC 18) : 50 kg HM HDPE Carbuoys / Acid resistant rubber lined tankers

EXCLUSIVE FEATURES

- Highly stable
- Low impurities
- Availability in both Liquid & Powder form
- Product is approved by CSIR-IITR, Lucknow

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ADVANTAGES

- Ease of application
- Coagulates very effectively in low as well as high turbidity water.
- Rapid & better floc formation as compared to Alum.
- Less reduction of pH compared to Alum.
- Very less sludge generation.
- No requirement of other flocculation aids.
- Reduced Sedimentation Time.
- Effective in wide pH range.
- Lower residual aluminium and other heavy metals as compared to Alum.

PRODUCTION CAPACITY

- 41250 MTPA Liquid (PAC 18) at Dahej Complex
- 20,000 MTPA Powder (PAC 30) at Dahej Complex
- 32,000 MTPA (PAC 18) at Coelho Complex

APPLICATIONS

- Municipal & Industrial Potable Water treatments
- Municipal & Industrial Waste Water treatments
- Sewage Water treatments
- Separation of slurry in Industrial processes
- Sizing in Paper & Pulp Industry
- Decolorisation & Decontamination of dyes in Textile Industry



Promoting Green Technology

Gujarat Alkalies and Chemicals Limited
 An ISO Certified Company (Promoted by Govt. of Gujarat)

Vadodara Complex (Regd. Office & Works) : P. O. Ranoli - 391 350,
 Dist. Vadodara (Gujarat) INDIA

Dahej Complex (Works) : P. O. Dahej-392 130, Tal. Vagra,
 Dist. Bharuch (Gujarat) INDIA

POLY ALUMINIUM CHLORIDE $(Al_n(OH)_mCl_{3m-n})_x$

BIOWIN (Water treatment chemical)



We are always the first and so...

At GACL, we always bring the premium quality products manufactured by the state-of-the-art technologies. Biowin has been developed in our own very well equipped R & D centre.

EXCLUSIVE FEATURES

- Broad spectrum Biocides, used to control algae & bacterial growth in the cooling water system.
- It is a blend of speciality Biocides, preventing the microbiological influenced corrosion & minimizing the clogging in the cooling water system.
- Compatible with our scale & corrosion inhibitor formulations branded as Scalewin.

APPLICATIONS

- In Power plant cooling tower / cooling water system
- Cooling tower / cooling water system of chemical process plants.
- Biowin 1,2,3 & 4 are always used in combination

DOSE

Dosage will vary with the system parameters & quality of water

SPECIFICATIONS

Sr. No.	Characteristics	Biowin-1	Biowin-2	Biowin-3	Biowin-4
1.	Appearance	Colourless to pale yellow liquid	Colourless to pale yellow liquid	Colourless to pale yellow liquid	Colourless
2.	Specific Gravity	0.95±0.05	1.01±0.10	0.95±0.05	1.00±0.10

ADVANTAGES

- Ready to use liquid
- Prolonged life of Heat Exchangers & Pipe line
- Takes care of overall microbiological debris/load in the cooling water system.
- The microbiology laboratory at GACL is fully equipped with most modern instruments to monitor/identify the microbiological debris/load in the cooling water system.

PACKING

- 35, 50 & 100 kg HDPE carboys/drum

PRODUCTION CAPACITY

- 48 MTA at Vadodara Complex

CONTACT

Phone : +91-265-6111000/7119000

Email : headmarketing@gacl.co.in

For Export Inquiries : export@gacl.co.in

Website : www.gacl.com



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BIW

BIOWIN (Water treatment chemical)

STABLE BLEACHING POWDER (SBP) (CaOCl₂)

SBP



Stable Bleaching Powder (SBP) is manufactured by Chlorination of high grade Hydrated Lime (Slaked Lime) using Liquid chlorine. It decomposes on contact with water, releasing chlorine at the point of application. This makes it a strong oxidising, bleaching and disinfecting agent

EXCLUSIVE FEATURES

- Strong Oxidizing and Bleaching Agent

APPLICATIONS

- Bleaching agent in Paper, Textile industry, Hand Looms, Power looms & Soaps industry
- Household Bleaching/cleaning applications
- Waste Water treatment and Sewage disposal
- Oxidizing agent
- Disinfecting agent
- Food Processing, beverage and sugar industry

SPECIFICATIONS

Sr.	Characteristic	Specifications
1.	Available Chlorine (as Cl ₂)	34.0 % min..
2.	Moisture	0.3 % max.
3.	Stability	I/15 max.

Caution : Store in a cool, dry and well ventilated place. Use personal protective equipments during application.

ADVANTAGES

- GACL guarantees minimum 34.0% of available Cl₂. Grade I
- Fairly stable in alkaline medium at room temperature.

PACKING

- 25 Kg. LDPE Bag with two LDPE liners
- 45 Kg. HM-HDPE Barrels with two LDPE liners

PRODUCTION CAPACITY

- 90 Tonnes/day at Dahej

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STABLE BLEACHING POWDER (SBP) (CaOCl₂)

SODIUM CHLORATE (NaClO₃)

SC



We are always the first and so

At GACL, We bring the premium quality products manufactured by state-of-the-art technology. Sodium Chlorate is manufactured with UHDE Technology.

EXCLUSIVE FEATURES

- Free flowing white crystalline powder
- Strong oxidizing agent
- Readily soluble in water
- Hygroscopic in nature

APPLICATIONS

- Bleaching agent for Pulp & Paper industry
- Rocket Propellants
- Water Treatment
- Manufacture of Sodium Chlorite
- Chemical Oxygen generation
- As an Intermediate for the synthesis of other Chlorates, Perchlorates

SPECIFICATIONS

Sr.	Characteristic		Specifications	Typical
1.	NaClO ₃	%	99.00 min	99.5
2.	NaCl	%	0.20 max	0.10
* 3.	Moisture	%	0.10 max	0.10
4.	Na ₂ SO ₄	ppm	0.02 max	0.02

* As and when required

ADVANTAGES

- Free flowing powder - easy to handle
- Readily soluble in Water with practically no insoluble
- Available in various sized packing

PACKING

- 50 Kgs. / 1000 Kgs. (Jumbo) PP Bags with LDPE liner

PRODUCTION CAPACITY

- 60 MT per day at Dahej Complex

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SODIUM CHLORATE (NaClO₃)

HYDRAZINE HYDRATE (HH) ($N_2H_4 \cdot H_2O$)

HH



We are always the first and so
At GACL, we bring premium quality products manufactured using state-of-the-art technologies. **Hydrazine Hydrate** is manufactured by our own Patented Technology and we are the first Company in India to manufacture this Import substitute speciality chemical.

EXCLUSIVE FEATURES

- The patent for this process was jointly given to GACL & CSIR-IICT, Hyderabad by the Patent Office, Government of India and the United States Patents & Trademark Office.

APPLICATIONS

- Oxygen Scavenger
- Blowing Agents
- Pesticides Industries
- Agrochemicals
- Water Treatment
- Pharmaceutical Industry
- Lubricant Additives
- Recovery of Precious Metals
- Flame-retardants
- Synthesis of Active Ingredients
- Fine Chemicals
- Anti-corrosion Processes
- Metal Treatments
- Polymers and Composites
- Fibres and Foam Compounds

SPECIFICATIONS

Sr. Characteristic	Specifications
1 Purity	80% W/W Min
2 Balance Water	
3 Appearance	Clear Colourless Liquid
4 Density	1.02 To 1.07
5 Active Content	Minimum 80% As
	Hydrazine Hydrate
6 Metals	< 10 ppm
7 Ammonia	< 50 Ppm
8 Ph	> 10 As Supplied

Caution: Store in a cool, dry and well-ventilated place. Use personal protective equipment during the application.

ADVANTAGES

- Eco-friendly process
- Major raw materials available in the vicinity
- Import substitute product – “Make in India”
- Manufactured used own patented technology
- Global standard product
- QCD equipped with most modern instruments to analyze special tests on request

PACKING

- 200 kg HDPE Barrels

PRODUCTION CAPACITY

- 30 Tonnes/Day at Dahej

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HYDRAZINE HYDRATE ($N_2H_4 \cdot H_2O$)



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Tel.: +91-2641-613200

