



SUPERWELD
Eco-Solutions

CHANGING

**THE WAY
INDUSTRY
TREATS**

WASTEWATER

GONE ARE THE DAYS OF BIOCULTURES, WASTEWATER COMPANIES ARE SWITCHING TO

- Helps Ensure Discharge Compliance
- Capability To Handle BOD/ COD Shocks
- Quick ETP/ STP Commissioning · Rapid Biomass Growth
- Suitable For MBR Highest BOD/ COD Reduction
- Technical Support · Biology Survives Temperature Shocks
- Ammonia Reduction · Ideal Alternative To UREA-DAP
- Enhances Biogas Generation · Oil and Grease Digestion
- Well Researched & Tested · Toughest Odor Control
- Improves Dissolved Oxygen
- Well Setting Floccs
- Made In India

SUPERWELD
Eco-Solutions



ABOUT US

Superweld EcoSolutions has a **decade-long experience** in the development of biological products **to improve wastewater treatment**. The present-day treatment methods are unsatisfactory & we feel that our products can **bring a big change** in terms of economics & performance.

Our herbal extracts, enzymes and microbes can be deployed in **Septic tanks, Industrial wastewater treatment, Grease trap management, BOD, COD reduction, Ammonia reduction, Odor elimination, Oil spill management, Algae control, Composting, Solid waste management**.

Easy to use formulations, quick results and performance at low dosages have made our products very well accepted by wastewater professionals. All product sales are backed by **technical support** from our head office & through a **country wide service network** of channel partners.

SUPER-24

DESCRIPTION

Powdered bioproduct with Microbes, Enzymes & Herbs to build well settling MLSS. Used for Commissioning, Recovery & Maintenance of Aeration tank activated sludge.



BENEFITS

- Maximizes COD, BOD, TSS reduction.
- Helps in Quick recovery, Quick commissioning.
- Improves settleability of activated sludge.
- Used in Lagoons, Septic tanks, Ponds, Lakes, Insitu Drain bioremediation, works across all technologies MBBR, ASPs, SBR.



BEFORE



AFTER

OXY-SUPER

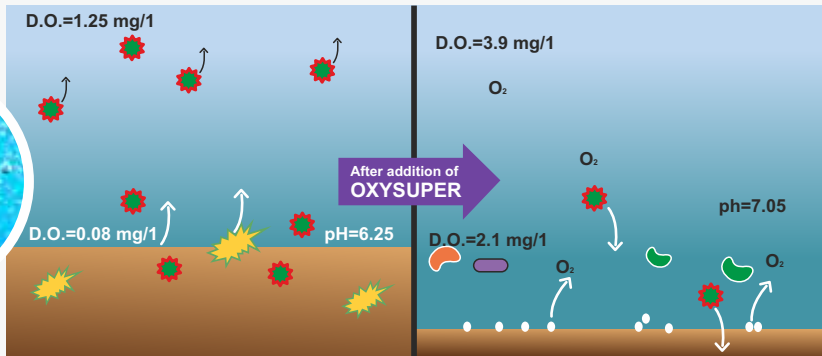
DESCRIPTION

Mineral based formulation to increase Dissolved Oxygen, Eliminate Odors, Reduce BOD, COD, TSS.



BENEFITS

- Quicker Wastewater treatment.
- Odor elimination.
- Sludge stays settled for longer hours in clarifiers.
- Eliminates Ammonia, H_2S , Septic conditions.
- Used in ETPs, STPs, Composting, Oil and grease Digestion.



SUPER NUTRIENTS

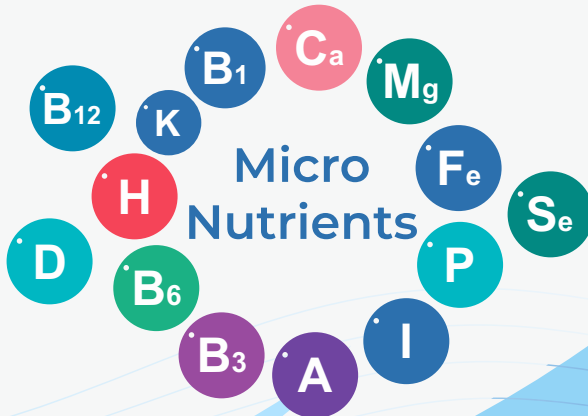
DESCRIPTION

Ideal Replacement for Urea, D.A.P, contains organic C, N, P, Trace minerals, Vitamins which promote very healthy floc structure in activated sludge.



BENEFITS

- Maximizes COD reduction.
- Eliminates filaments and gives healthy floc structure.
- Increases MLVSS, and improves settleability.
- Compliments nutrient deficiency in effluents like beverages, Food processing, Chemical industries, Textile, Pharma, Pulp & paper etc..



BIO FRESH

DESCRIPTION

Available in powder and liquid forms provides biological oxidation of odors like Ammonia, Sulphides, Mercaptans, Indoles etc..Not just masking, Actual break down of odorous compounds into basic elements.



BENEFITS

- Eliminates wastewater odor without using hazardous Chemicals.
- Eliminates toxicity and filamentous bulking due to H₂S and Ammonia.
- Works in low DO, Anaerobic conditions.
- ETPs, STPs, Ponds , Lakes, Bioremediation projects, Aquaculture and Solid Waste.



SUPER SETTLER

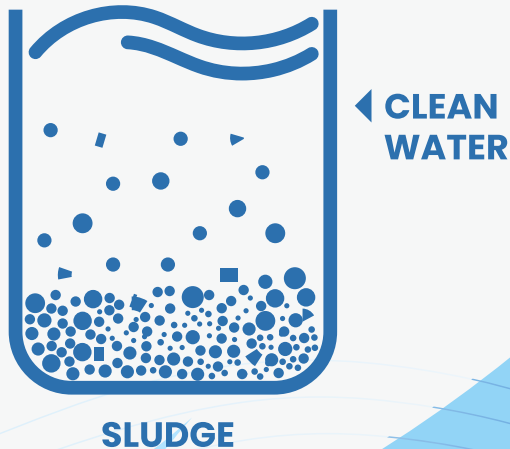
DESCRIPTION

One of its kind 100% organic coagulant & flocculant having nano chitosan to reduce TSS, Colour, BOD & COD, can be used in activated sludge, ideal replacement for PAC, inorganic coagulants.



BENEFITS

- Enhances TSS reduction.
- 100% Biodegradable.
- Removes colors, dyes, metals like Cr, Cu, Fe, Mn, Pb, Zn.
- Improves flocculation of MLSS.



SUPER FLOC ANIONIC

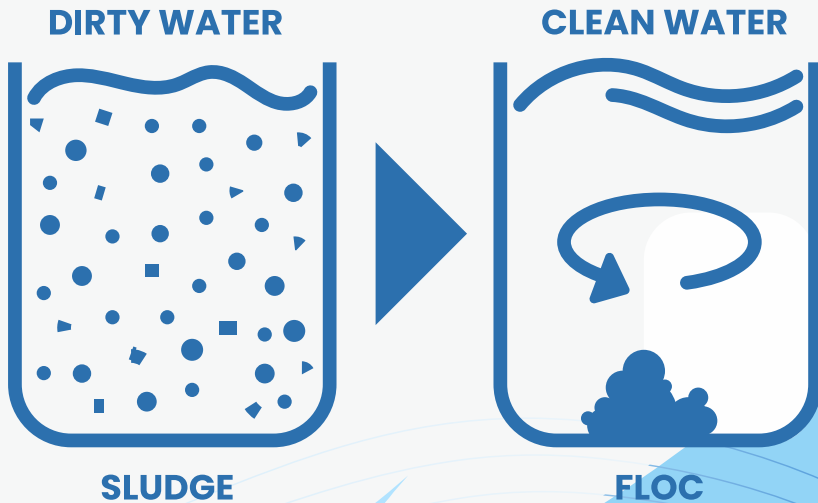
DESCRIPTION

High molecular weight high charge anionic polyelectrolyte for flocculation & sedimentation of suspended solids. useful in primary treatment.



BENEFITS

- Easy handling.
- Reduces the effluent's BOD & COD, TSS.
- Dependable throughout a wide pH Range.
- Generates huge flock size & Reacts Rapidly.



SUPER FLOC CATIONIC

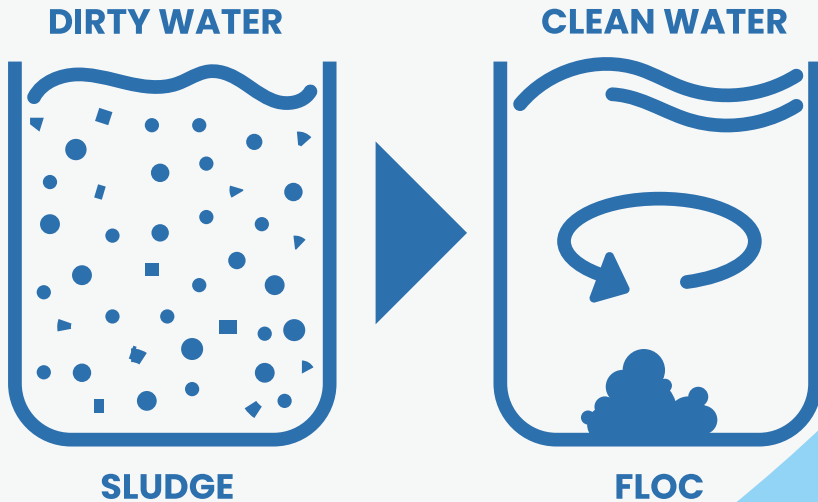
DESCRIPTION

High molecular weight high charge cationic polyelectrolyte for dewatering of secondary sludge. Used in belt filter, filter press, Screw Press, DAF, Filtration.



BENEFITS

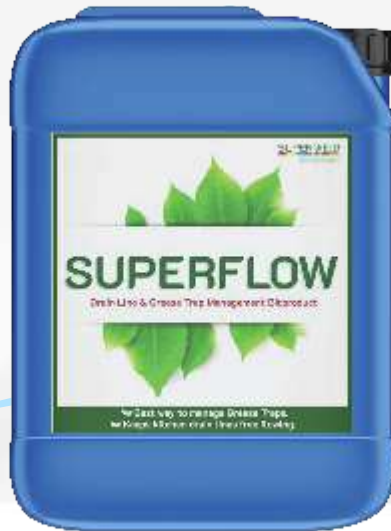
- Neutralizes negatively charged floccs.
- Promotes filtration.
- Reduces sludge volume considerably.



SUPERFLOW

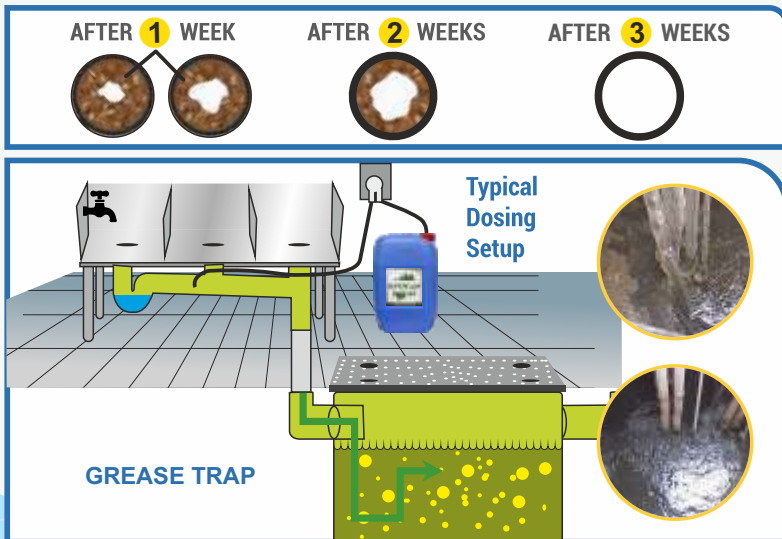
DESCRIPTION

A liquid bio formulation having fast acting enzymes and microbes to digest all kinds of Fats , Oil & Grease.



BENEFITS

- Complete control of grease odors.
- No kitchen downtime due to clogged drains.
- Easy grease trap management.
- Reduction in pests, Pumping/lifting frequency eliminates foaming problems in STPs, ETPs due to F.O.G.



SUPER AMMONIL

DESCRIPTION

A liquid bio formulation to adsorb and nitrify the ammonia in wastewaters and solid waste.



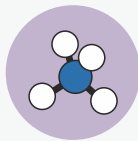
BENEFITS

- Quick recovery of nitrifying and nitrite reducing microbes.
- Reduces ammonical nitrogen levels in wastewater very effectively.
- Works in wide pH, temperature & salinity range.
- Useful for STPs, ETPs, Aquaculture facilities.

NITRIFICATION

NITROSOMONAS

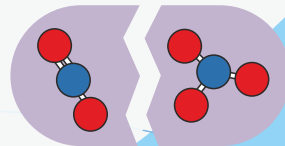
NITROBACTER



Ammonium (NH₄⁺)



Ammonil Bacteria



Nitrites (NO₂⁻) & Nitrates (NO₃⁻)

SUPER CH4

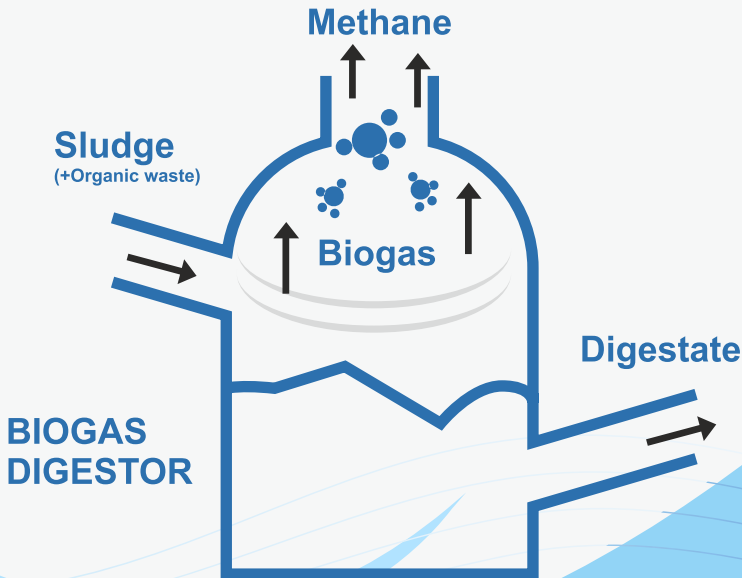
DESCRIPTION

SUPER CH4 is a powdered formulation of microbes, enzymes, & herbal stimulants to boost the production of biogas & enhance the COD reduction in UASBRs, digestors.



BENEFITS

- Enhanced digester performance with High COD Reduction.
- Multi fold increase in yield of Biogas.
- Reduces alkalinity demand.
- Quick recovery in case of upsets.



SUPER FOAM NOT

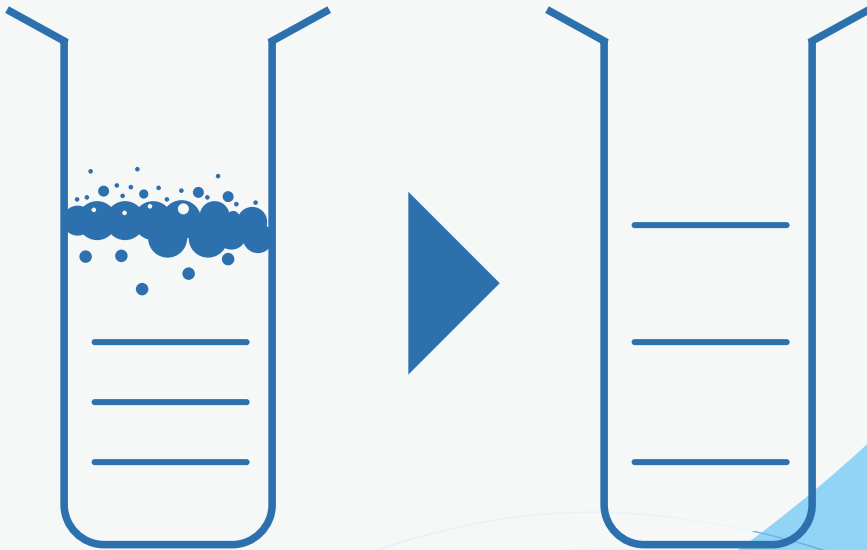
DESCRIPTION

It is a 100% organic formulation to prevent foam, works in all kinds of wastewater, Does not interfere with microbial growth unlike silicone defomers.



BENEFITS

- Perfect antidote for surfactant foam.
- Quick action at extremely low dosages.
- 100% biodegradable.



Before

After

SUPER CHLORONIL

DESCRIPTION

SUPER CHLORONIL utilizes the unique chemistry of vitamin C to neutralize chlorine, chlorides and chloramines from water, Improves bioactivity many.folds.



BENEFITS

- 100% organic and non toxic.
- Does not change the pH of the resultant water.
- Does not alter the dissolved oxygen level of water.
- Neutralizes chlorine and its compounds rapidly.



**CHLORINE
REMOVAL**

COW DUNG EXTRACT

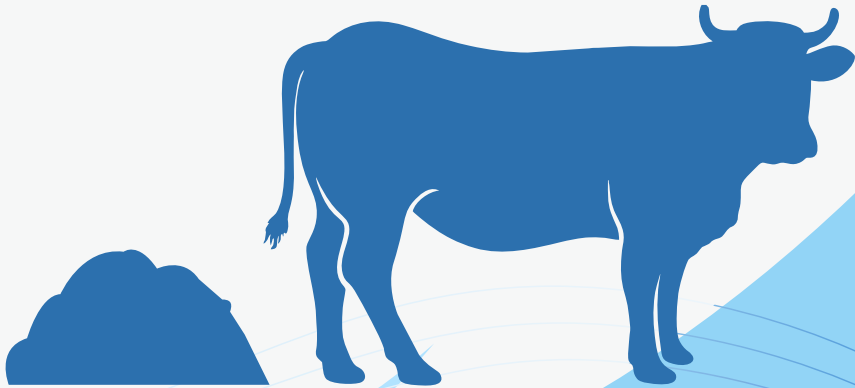
DESCRIPTION

Cowdung extract for BIO GAS GENERATION. 1kg replaces 20kg wet cow dung, Free from pathogens or Non Performing microbes.



BENEFITS

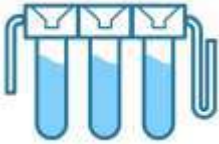
- Perfect blend of proteins and enzymes..
- Improves microbial growth and gas yield.
- Missing nutrition for digestor performance Improvement.



EXPERT SERVICES WE OFFER



- Troubleshooting
Guidance



- ETP / STP performance
Improvement



- Anaerobic Digester
efficiency improvement.

3

Tips To Improve Wastewater Treatment Plant

- **Maintain Constant Inlet Feed: Uniform feeding promotes efficient operations and optimal biological performance.**
- **On a regular basis, waste sludge from the tube settler or clarifier.**
- **Use cutting-edge bio inputs like BIOFRESH, SUPER 24, and OXYSUPER to increase plant productivity.**

STP/ ETP Activated sludge Commissioning

Procedure With **SUPER 24 & OXY-SUPER.**



Make sure that the aeration tank's ventilation & mixing are sufficient for the D.O. to achieve 2 ppm, or 2 mg/L.



Add wastewater with BOD & COD to the aeration tank.



Maintain a pH of between 6.5 and 8.5 & a temperature between 20 and 35 degrees Celsius.



Add SUPER 24 and OXY SUPER at 10 ppm, or 10 gm/KL of the volume of the aeration tank, then hold & aerate for 18 hours.



Recirculate the MBR or secondary clarifier's sludge back to the aeration tank while continuing to feed the system.



Add SUPER 24 and OXY SUPER at 3 ppm*, or 3 gm/KL influent, every day.

How To Revive Septic Tanks

- Examine and check for any indications of damage or blockages; if feasible, remove the sludge that has accumulated.
- Avoid using harsh chemicals, antibacterial products, & objects that aren't biodegradable.
- For the purpose of resuming and boosting microbial activity, provide SUPER 24 and OXYSUPER.
- OXYSUPER speeds up the breakdown of organic debris and decreases odours by creating an oxygen-rich environment.
- For technical Support reach out to us.

CLIENTELE



HOSPITALITY

The Oberoi Group, The Leela Group, Hyatt Regency Group, Hilton Hotels



PHARMA

Symbiotec Pharma Labs- M.P, GlenMark Pharma- Baddi,
Fishfa Biogenics- Rajkot.



TEXTILE

Chelsea Mills- Gurgaon, Appollo Processors- Amritsar,
Textile Factories- Panipat



PAPER MILLS

Khanna Paper Mills - Amritsar, Yash Paper Mill- Ayodhya,
Unity Pulp- Itarasi, Canara Paper Mill- Kerala.



CETPS

CETP- Bhiwadi, CETP- Jodhpur, CETP- Ludhiana, CETP- Baddi.



FOOD & BEVERAGE

ITC- Kapurthalla, Pearl distilleries Limited,
Pioneer Distilleries limited, Godrej Agrovet Ltd.



WASTE WATER MANAGEMENT

Enhanced Wapss Sysytem, Flosys Water solutions,
Shrikaa solutions, RK Waters- Gujarat.

OUR RESULTS

RESIDENTIAL SOCIETY NAGPUR

BIOFRESH & OXYSUPER being used regularly



Before



After

HYATT REGENCY DEHRADUN

OXYSUPER & SUPER 24 being used regularly



Before



After

WOOD BOARD MANUFACTURER

TDS, Silica Reduction by using SUPER 24



Before



After

CETP, BHIWADI, RAJASTHAN

MLSS / SV30

Before



After



PAPER MILL

Secondary Clarifier



TECHNIQUES TO CONTROL ODORS IN WASTEWATER

- We advise using the biologically simple route.
- Introduce OXYSUPER to create nano-sized oxygen bubbles that dispel odorous gases. Introduce. BIOFRESH to break down the odor causing organic chemicals.



WHY OIL & GREASE MUST NOT BE RELEASED IN STPS & ETPS

- Malodor problems.
- Excessive foam production and increase housekeeping by operators.
- Decreased outlet water quality
- More sludge production.



TYPES OF FOAMING, CAUSES AND SOLUTION

TYPE OF FOAMING	CAUSE	SOLUTION
White non stable foaming	Plant start, or high BOD load, Low D.O.	Such foaming normally goes away in 3-4 days , if it persists then address the causes mentioned. Use OXYSUPER to increase D.O.
Sticky chocolate mouse foam	Filamentous foaming due to oil & grease or nutrient deficiency, long sludge age	Purge the MLSS to reduce the filaments and regrow the MLSS with SUPER24

Contact the Superweld Team for more guidance

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SUPER WELD

Eco-Solutions

- ODOR CONTROL
- SEWAGE TREATMENT
- BIOREMEDIATION
- WASTEWATER BIOCULTURE
- SLUDGE COMPOSTING
- AMMONIA REDUCTION.

USE IT TO BELIEVE IT



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